

Rec'd POT/PTO 08 JUL 2004

10/501187

WO 03/057926

PCT/US03/00657

SEQUENCE LISTING

<110> Hansen, Rhonda

<120> GENE PRODUCTS DIFFERENTIALLY EXPRESSED
IN CANCEROUS BREAST CELLS AND THEIR METHODS OF USE

<130> 2300-17767WO

<150> 60/345,637

<151> 2002-01-08

<160> 516

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 114

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 70

<223> n = A,T,C or G

<400> 1

catcctcgga cgccagcaag gtgacctcta agggggcagg gctctcaaag gcctttgtgg 60
gccagaaggn aaggttcctt cctggtggac tgcagcaaaag ctggctccaa catg 114

<210> 2

<211> 430

<212> DNA

<213> Homo sapiens

<400> 2

gggactcgcc acctcctctt gcacccctgc caggcccagc agccaccaca gcgcctgctt 60
cctcggccct gaaatcatgc ccctaggtct cctgtggctg ggcctagccc tgttgggggc 120
tctgcatgcc caggcccagg actccacctc agacctgac ccagccccac ctctgaacaa 180
ggtccctctg cagcagaact tgcaggacaa ccaattccag gggaagtggg atgtggtacg 240
cctggcaggg aatgcaattc tcagagaaga caaagaccg caaaagatgt atgccaccat 300
ctatgagctg aaagaagaca agagctacaa tgtcacctcc gtcctgttta ggaaaaagaa 360
gtgtgactac tggatcacga cttttgttcc aggttgccag cccggcgagt tcacgctggg 420
caacattaag 430

<210> 3

<211> 527

<212> DNA

<213> Homo sapiens

<400> 3

ctgctaatac agccctgggt gtggaatcct tcaccgtctc agctggtatc agccccagcc 60
tgccctgtgc catatctcag cttggatctc tgctagagtc cccccaacca tatatcatag 120
agttgaatca caatgagacc gttggctttg aatttgagtc gttggttccc atggtgagat 180
gcttggttaag actttatact tgggtcaatc tctcacttta tttttagtaa ccatttgaaa 240
tcctaggatg tgcttggtct ggaaggatga catgggccc gactgaacaa gtcagcttga 300
tgatcttaaa tgatggaagt ataggacgtt gcttatttta aaacaaggga aggacacaaa 360
atggaatgac tgcttagtcc tttctcagat actcttaaaa caatttttta ttgttaaatt 420
tgtggttaata catggtcaca accgtggatc aaacaaggtc agtctaaagt ggcaggctcct 480
aggtgtgacc tgataccacc accctttgtg gcagcaccgg gctggac 527

<210> 4
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 186, 188
 <223> n = A,T,C or G

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<400> 4
ccggcctcgt ggaccagcct gggctctcgc tggaggaagt ggcttgcaag gaggcttggg 60
aggagtgtgg ctaccacttg gccccctctg atctgcgccg ggtcgccaca tactgggtctg 120
gagtgggact gactggctcc agacagacca tgttctacac agaggtgaca gatgcccgagc 180
gtacgntncc aggtgggggc ctggtggagg aggggtgagct cattgaggtg gtgcacctgc 240
ccctggaagg cgcccaggcc tt                                     262
```

<210> 5
 <211> 201
 <212> DNA
 <213> Homo sapiens

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<400> 5
gccactgaaa atccttggtta aaaaccagat cacaaatctg gggctcttgg tccatttggg 60
gaagggaagg agagcctcaa aataagtgtg caccatgca catattcagg aacagcttgt 120
ttagtcttta cactttgcct gaaagtgtct tctcctcgtc cctttgtgtg cctgggtggc 180
ctcggccctg tgcgttgga a                                     201
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<210> 6
 <211> 621
 <212> DNA
 <213> Homo sapiens

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<400> 6
tgagggtccc cgctcagctc ctgggggtcc tgctactctg gctccgaggt gccagatgtg 60
acatccagat gaccagctct ccattcctccc tgtctgcac tggtggagac agagtaccca 120
tcgcttgccg ggcaagtcag agcattggca tctattttaa ttggtatcaa caaaaaccag 180
ggaaagcccc taaactcctg atctatgatt catccagatt gcaaagtggg gtcccatcaa 240
ggttcagtg cagtggagggt gggacacact tcaactctac catcagcagt ctgcaacctg 300
aagatttagc aacttactac tgtcaacaag ggtacagtac acctggcacc ttcggccaag 360
ggacacgact ggaattttaa cgaactgtgg ctgcaccatc tgtcttcac ttcccgccat 420
ctgatgagca gttgaaatct ggaactgcct ctgttggtgt cctgctgaat aacttctatc 480
ccagagaggc caaagtacag tgggaagggtg ataacgcctt ccaatcgggt aactcccagg 540
aggggtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 600
ctgagcaaa g cagactacga g                                     621
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<210> 7
 <211> 548
 <212> DNA
 <213> Homo sapiens

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<400> 7
gacagcatgg acatgagggt ccccgctcag ctctggggc tcctgctact ctggctccga 60
ggtgccagat gtgacatcca gatgacccag tctccatcct ccctgtctgc atctgttggg 120
gacagagtca ccattcgctt cggggcaagt cagagcattg gcattctattt aaattgggtat 180
caacaaaaac cagggaagc ccctaaactc ctgatctatg attcatccag attgcaaaagt 240
gggggtcccat caaggttcag tggcagtgga ggtgggacac acttactctt caccatcagc 300
agtctgcaac ctgaagattt agcaacttac tactgtcaac aagggtacag tacacctggc 360
accttcggcc aagggaacag actggaaatt aaacgaactg tggctgcacc atctgtcttc 420
atcttcccgc catctgatga gcagttgaaa tctggaactg cctctgttgt gtgcctgctg 480
aataacttct atcccagaga ggccaaagta cagtgggaagg tggataacgc cctccaatcg 540
ggtaactc                                     548
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<210> 8
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 8
 tatacacaaac atttatttca aactattggg agggatgaga gtggcttaaa aacttccatc 60
 cctactttttc aagagtgcag ttgattctga atctgaaagc cgcctctgt cctaaaatac 120
 aaacaagcac agacattaaa cctggatact atatgataaa gagggatgta actattgaat 180
 tggatacaag gatcagaatg gaaagaaact cacgatgaaa ttgaacctgg tttttgtata 240
 tttatcaaac ttgtgctgag aatagtgtct gattatacga cttttaagca aagttaggtg 300
 taattagggtg aaaacagccc aggtcctccc gggagcacag aggggctagg ggctggctcct 360
 tctcgtttgc tctagtcttg ctttgctgtc tgggtgtagct cctctgctgc tcccatctgc 420
 actaattgac 430

<210> 9
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 9
 ctactattt ggaatttggc cctcgaggcc aagaattcgg cacgaggcgg cacgagggtg 60
 aactattgaa ttggatacaa ggatcagaat ggaaagaaac tcacgatgaa attgaacctg 120
 gtttttgtat atttatcaaa cttgtgctga gaatagtgtc tgattatacg acttttaagc 180
 aaagttaggt gtaattagggt gaaaaacagcc caggtcctcc cgggagcaca gaggggctag 240
 gggctgggtcc ttctcgtttg ctctagtctt gctttgctgt ctggtgtagc tcctctgctg 300
 ctcccatctg cactaattga cccaaaacgt ggggtatttcc tgctacacaa aagccaaaag 360
 gtttcatgta gatttttagtt cactaaagggt tgcccacaaa atagagatta attttaactt 420
 aaattttaag cttgaagatt aggtactatc tgtgaagtta cacttttttt ttttttttaa 480
 aaggaaaaaa tgt 493

<210> 10
 <211> 472
 <212> DNA
 <213> Homo sapiens

<400> 10
 cggcaccgagg tgtaactatt gaattggata caaggatcag aatggaaaga aactcacgat 60
 gaaattgaac ctggtttttg tatattttatc aaacttgtgc tgagaatagt gtctgattat 120
 acgactttta agcaaagtgt ggtgtaatta ggtgaaaaca gccaggtcc tcccgggagc 180
 acagaggggc taggggctgg tccttctcgt ttgctctagt cttgctttgc tgtctgggtg 240
 agtccctctg ctgctcccat ctgcactaat tgacccaaaa cgtgggtatt tcctgctaca 300
 caaaagccaa aagggtttcat gtagatttta gttcactaaa ggggtgccac aaaatagaga 360
 ttaattttta cttaaatttt aagcttgaag attaggtact atctgtgaag ttacactttt 420
 ttattttttt ttaaaggtag agatgtgtgt gtgtgtaggt attaaagatg tg 472

<210> 11
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 11
 gtttttcttt tttttatata caacatttat ttcaaactat tgggagggat gagagtggct 60
 taaaaacttc catccctact tttcaagagt gcagttgatt ctggggggga aagccgcct 120
 ctgtcctaaa atacaaacaa gcacagacat taaacctgga tactatatga taaagaggga 180
 tgtaactatt gaattggata caaggatcag aatggaaaga aactcacgat gaaattgaac 240
 ctggtttttg tatattttatc aaacttgtgc t 271

<210> 12
 <211> 343
 <212> DNA

<213> Homo sapiens

<400> 12

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gtttttcttt tttttataca caacatttat ttcaaactat tgggagggat gagagtggct 60
taaaaacttc catccctact tttcacgagt gcagctgatt ctgaatctga aagcccgct 120
ctgtcctaaa atacaaacac gcacagacat tagacctgga tactatatga tacagagggga 180
tgtaactatt gaattggata cacggatcac aatggaaaaga aactcacgat gaaattgaac 240
ctggcttttg tatatttatc aaacttgtgc tgagaatagc gcctgattat acgactttta 300
agcaaagctg ggtgtaatta ggtgaaaaca gcccacgtcc tcc 343
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<210> 13

<211> 345

<212> DNA

<213> Homo sapiens

<400> 13

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agtggcgagc aggttccac ttgcaaaga tcccttttaa ccaacactag cccttgtttt 60
taacacacgc tccagccctt catcagcctg ggcagtctta ccaaaatgtt taaagtgatc 120
tcagaggggc ccatggatta acgccctcat cccaagggtcc gtcccatgac ataacactcc 180
acacccgccc cagccaactt catgggtcac tttttctgga aaataatgat ctgtacagac 240
aggacagaat gaaactcctg cgggtctttg gcctgaaagt tgggaatggt tgggggagag 300
aagggcagca gcttattggt ggtcttttca ccattggcag aaacg 345
```

<210> 14

<211> 401

<212> DNA

<213> Homo sapiens

<400> 14

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ttttccaagt ccgtttcagt cccttccttg gtctgaagaa attctgcagt ggcgagcagt 60
ttcccacttg ccaaagatcc cttttaacca acactagccc ttgtttttaa cacacgctcc 120
agcccttcat cagcctgggc agtcttacca aaatgtttaa agtgatctca gaggggccc 180
tggtattaacg ccctcatccc aagggtccgtc ccatgacata acactccaca cccgccccag 240
ccaacttcat gggtcacttt ttctggaaaa taatgatctg tacagacagg acagaatgaa 300
actcctgcgg ctctttggcc tgaaagtggg gaatggttgg gggagagaag ggcagcagct 360
tattggtggt cttttcacca ttggcagaaa cagtgaagac t 401
```

<210> 15

<211> 442

<212> DNA

<213> Homo sapiens

<400> 15

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ggcagccggc ccacatgtct ctcaagtacc tgtcccctcg ctctggtgat tatttcttgc 60
agaatcacca cagagacca tcccggcagt catgggtttg ctttagtttt ccaagtccgt 120
ttcagtcctt tccttggctt gaagaaattc tgcagtggcg agcagtttcc cacttgccaa 180
agatcccttt taaccaacac tagcccttgt ttttaacaca cgctccagcc cttcatcagc 240
ctgggcagtc ttacaaaaat gtttaaagtg atctcagagg ggcccatgga ttaacgccct 300
catcccaagg tccgtcccat gacataacac tccacaccgg cccagccaa cttcatgggt 360
cactttttct ggaaaataat gatctgtaca gacaggacag aatgaaactc ctgcggctct 420
ttggcctgaa agtgggaatg gt 442
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<210> 16

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 96

<223> n = A,T,C or G

<400> 16

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gaatatgtag atttgcttct taatcctgag cgctacactg gttacaagg accagatgct 60
tggaataat ggaatgtcat ctacgaagaa aactgnntta agccacagac cattaaaaga 120
ccttaaattc ttggcttct ggtcaaggga caagtgaaga gaacactttt tacagtggc 180
tagaaggctc ctgtgtagaa aaaagagctt ctacagactt atatctggcc tacatgcaag 240
ccattaatgt gcattt                                     256

```

<210> 17

<211> 405

<212> DNA

<213> Homo sapiens

<400> 17

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attctgtgat ttatttgaaa ctgtgaaacc atgtgccata atagaatttt gagaattttg 60
cttttaccta aattcaagaa aatgaaatta cacttttaag ttagtggtgc ttaagcataa 120
tttttcctat attaaccagt attaaaatct caagtaagat ttccagtgcc cagaacatgt 180
taggtggaat tttaaaagt cctcggcatc ctgtattaca tgcatagaa ttgtaaagtc 240
aacatcaatt actagtaatc attctgcact cactgggtgc atagcatggt tagaggggct 300
agagatggac agtcatcaac tggcggatat agcggtagat atgacctta gccaccaggg 360
cacaagctta ccagtagaca atacagacag agcttttgtt gagct 405

```

<210> 18

<211> 447

<212> DNA

<213> Homo sapiens

<400> 18

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tgtgatttca ttgaaactg tgaaaccatg tgccataata gaattttgag aattttgctt 60
ttacctaaat tcaagaaaat gaaattacac ttttaagtta gtggtgctta agcataattt 120
ttcctatatt aaccagtatt aaaatctcaa gtaagatttt ccagtgccag aacatgttag 180
gtggaatttt aaaagtgcct cggcatcctg tattacatgt catagaattg taaagtcaac 240
atcaattact agtaatcatt ctgcactcac tgggtgcata gcatggttag aggggctaga 300
gatggacagt catcaactgg cggatatagc ggtacatatg atccttagcc accagggcac 360
aagcttacca gtagacaata cagacagagc ttttgttgag ctgtaactga gctatggaat 420
agcttctttg atgtacctct ttgcctt 447

```

<210> 19

<211> 294

<212> DNA

<213> Homo sapiens

<400> 19

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tgtgatttca ttgaaactg tgaaaccatg tgccataata gaattttgag aattttgctt 60
ttacctaaat tcaagaaaat gaaattacac ttttaagtta gtggtgctta agcataattt 120
ttcctatatt aaccagtatt aaaatctcaa gtaagatttt ccagtgccag aacatgttag 180
gtggaatttt aaaagtgcct cggcatcctg tattacatgt catagaattg taaagtcaac 240
atcaattact agtaatcatt ctgcactcac tgggtgcata gcatggttag aggg 294

```

<210> 20

<211> 562

<212> DNA

<213> Homo sapiens

<400> 20

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aggagcaggt tggactggcc atccgaagca agattgcaga tggcagtgtg aagagagaag 60
acataattcta cacttcaaag ctttggagca attcccatcg accagagtgt gtccgaccag 120
ccttggaag gtcactgaaa aatcttcaat tggactatgt tgacctctat cttattcatt 180
ttccagtgct tgtaaagcca ggtgaggaag tgatcccaaa agatgaaaat ggaaaaatac 240
tatttgacac agtggatctc tgtgccacat gggaggccat ggagaagtgt aaagatgcag 300
gattggccaa gtccatcggg gtgtccaact tcaaccacag gctgctggag atgacctca 360
acaagccagg gctcaagtac aagcctgtct gcaaccaggt ggaatgtcat ccttacttca 420
accagagaaa actgctggat ttctgcaagt caaaagacat tgttctgggt gcctatagtg 480

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ctctgggcatc ccacgagaa gaaccatggg tggacccgaa ctccccggtg ctcttggagg 540
 acccagtcct ttgtgccttg gc 562

<210> 21
 <211> 721
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 626, 685, 696
 <223> n = A, T, C or G

<400> 21
 ggcacgagat gaggagcagg ttggactggc catccgaagc aagattgcag atggcagtgt 60
 gaagagagaa gacatattct acacttcaaa gctttggagc aattcccatc gaccagagtt 120
 ggtcccgaacc agccttggaa aggtcactga aaaatcttca attggactat gttgacctct 180
 atcttattca ttttccagtg tctgtaaagc caggtgagga agtgatccca aaagatgaaa 240
 atggaaaaat actatttgac acagtggatc tctgtgccac atgggaggcc atggagaagt 300
 gtaaagatgc aggattggcc aagtccatcg ggggtgtccaa cttcaaccac aggcctgttg 360
 agatgatcct caacaagcca gggctcaagt acaagcctgt ctgcaaccag gtggaatgtc 420
 atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaagac attgttcttg 480
 ttgcctatag tgctctggga tcccatcgag aagaaccatg ggtggaccgc aactccccgg 540
 tgctcttggg ggacccagtc ctttgtgcct tggcaaaaaa gcacaagcga accccaccct 600
 gattgccttg cgctaccagc ttgcancgtg gggttgtggt cctggccaag agcttcaatg 660
 agcacgcatc agacagaacg tgcangtgtt tgaatncagt tgacttcaga aggagatgaa 720
 a 721

<210> 22
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 22
 agatgataac cagaagtctg catttgaagt tcacaaaagt aatcaagctc aaacagttag 60
 tgagaggcag aagaacagac ctataatcttg taaaaaagga aaaaatatta gggaagatga 120
 tcctgtaaga atgttgcaaa ctgttgcaaa gaaattcgac ttcagtaatt tgagtagtag 180
 gttagatgga gtcagatttg aaaatgaaaa aaattaatgt tattgccaaag aacactggta 240
 ataaactgaa gctaagtcag aaaaaatggt tgtttgctag atcccaatgg agaaaagtgt 300
 gtaactgctc ctgcgtcagg ctctgtctct caccataaag acattgctct gtctttggtt 360
 gctgcaagtg atggagctac agtctgtgtt accacaaggg gagatattta cttacttgca 420
 gactatcagt gcaagaagat ggcttctaaa cagttgaact tgaaaaaagt tcttgtgtct 480
 gggggtcata tggaat 496

<210> 23
 <211> 549
 <212> DNA
 <213> Homo sapiens

<400> 23
 ctgcatttga agttcacaaa agtaatcaag ctcaaacagt tagtgagagg cagaagagca 60
 gacctaaatc ttgtaaaaaa ggaaaaaata ttagggaaga tgatcctgta agaattgtgc 120
 aaactgttgc aaagaaattc gacttcagta atttgagtag taggttagat ggagtcagat 180
 ttgaaaatga aaaaaattaa tgttattgcc aagaacactg gtaataaact gaagctaagt 240
 cagaaaaaat ggttgtttgc tagatcccaa tggagaaaag tgtgtaactg ctctcgtca 300
 ggtctctgct cttcaccata aagacattgc tctgtctttg gttgctgcaa gtgatggagc 360
 tacagtctgt gttaccacaa ggggagatat ttacttactt gcagactatc agtgcaagaa 420
 gatggcttct aaacagttga acttgaaaaa agttcttgtg tctgggggtc atatggaata 480
 caagggttgat cctgaacatt tgaaagaaaa tgggggtcaa aaaatttgca ttcttgcaat 540
 ggatggagc 549

<210> 24

<211> 55
 <212> DNA
 <213> Homo sapiens

<400> 24
 gtgtctgcct tcacaaatgt cattgtctac tcctagaaga accaaatacc tcaat 55

<210> 25
 <211> 498
 <212> DNA
 <213> Homo sapiens

<400> 25
 tccttatttta tttaacttca cccgagttcc tctgggtttc taagcagtta tggatgatgac 60
 ttagcgtcaa gacatttgc gaactcagca cattcgggac caatatatag tgggtacatc 120
 aagttcatct gacaaaatgg ggcagaagag aaaggactca gtgtgtgatc cggtttcttt 180
 ttgctcgccc ctgttttttg tagaatctct tcatgcttga catacctacc agtattattc 240
 ccgacgacac atatacatat gagaatatac cttattttatt tttgtgtagg tgtctgcctt 300
 ccaaaatgtc attgtctact cctagaagaa ccaaatacct caatttttgt ttttgagtac 360
 tgtactatcc tgtaaatata tcttaagcag gtttgttttc agcactgatg gaaaatacca 420
 gtgttggtgt ttttttttagt tgccacagtt gtatgtttgc tgattattta tgacccgaaa 480
 aatatatttc ttctccta 498

<210> 26
 <211> 325
 <212> DNA
 <213> Homo sapiens

<400> 26
 gtcgctgcct ctggggggcgc tgtacaccgc ggccgtcgcg gctttagtgc tgtacaagtg 60
 tgtggggggg ggagatgaaa ctgcggttct ccaccaggag gcaagcaagc agcagccact 120
 gcagtcagag caacagctgg ccaggttgac acaacagctg gccagacag agcagcacct 180
 gaacaacctg atggcccagc tggacccctt ttttgagccg tgtgactact ctggctggag 240
 ccagcagga gcttctgaac atgaagctat ggaccatcca cgagctgctg caagatagca 300
 agccggacaa ggatatggag gcttc 325

<210> 27
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 27
 gaatccagca tcttaaagt gcatatgtgt agcactaatg tttcttttta aatagttggg 60
 ggaaaatgac ctagaaaacc aaattgcagt ttggtagcca aaattaactc ttgggtttatt 120
 tgtcctttgt gtgtgaaaag tcctactatt ccgtgcgtca gacttc 166

<210> 28
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 28
 tttttttttt tttttttttt tttttcgcag ctgaattaca tttactgtac aaagaacggt 60
 tcggagagaa ccaggaatgg cggagtgtct aacagcagcg cgggtagtgt tgatgccgtg 120
 aatgcaggac catccaggtc ctcaaagtct gcgaggtttg ttcataatcc caaacaaggg 180
 ccctgctggc agcaacagga cagggtggggc caggacaggg aagctggagc aggaggccag 240
 tgtcttttgg ggctgtggca gggccgcctg cctgggggtc cttactcat ctggtagtgc 300
 atgcaggcca cggccctcat ctcccaggaa cgggccatgg ggcgagtcca ctggtgcca 360
 gtaacacctt ccgtgggacc accttgggaa gcatgtgccg cggagtccac cacggggggg 420
 cctgggtccc ggaggggtc cttctgcgtg ctggccatgt cgtgccgcac ggcctgagga 480
 caggaggtag aggtgagcac c 501

<210> 29
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 29
 cgtcccggag gtgCGgtgtg gggcaccggg cggggccgCG ggaaccggcg cccacggag 60
 ctgctgctgt cagaccaacc cggggccccc atcatcactg cgccgcgctt tcaggcgccg 120
 agaactaccg ttcccggcat gccatgaaa 149

<210> 30
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 30
 agcagtaaac agggctgcta tgcctgctct gtagtggtgg acggcgaagt aaagcattgt 60
 gtcataaaca aaacagcaac tggctatggc ttgcccagc cctataactt gtacagctct 120
 ctgaaagaac tgggtgtaca ttaccaacac acctcccttg tgcagcaca cgactccctc 180
 aatgtcacac tagcctacc agtatatgca cagcagagcg gatgaagcgc ttactctttg 240
 atccttctcc tgaagttcag ccaccctgag gcctctggaa agcaaaggcg tcctctccag 300
 tctgatctgt gaattgagct gcagaaacga agccatcttt ctttgatgg gactagagct 360
 ttctttcaca aaaaagaagt aggggaagac atgcagccta aggctgtatg atgaccacac 420
 gttcctaagc tggagtgtct atcccttctt tttctttttt tctttggttt aattt 475

<210> 31
 <211> 570
 <212> DNA
 <213> Homo sapiens

<400> 31
 cttttttttt tttttttttt tactggcatc ctgtacattt acttttaaaa aaggataaca 60
 aaaatgaata ttaacaaaaa tccgggacaa caatatcttc aagcaacaaa aactgggggtg 120
 gggaagctta ttctgaagg acatttaaaa ctgaaataac aacttaatga aaattaagaa 180
 ttgcatagcg ctgtgaattt agccttcagc aaaacaaaac agaagctatt tggattatgat 240
 acaaatccat ctatttgata gttagtcatc caatattatg tacatatctt atatactgaa 300
 tgtcatttta agtcctgttt tccaaactcc attttctgt tgctgggttt ttgttttttg 360
 acaagttaaa cactttctgg cactttctat gacagaattt cttctgaaca tacatgaact 420
 gacattctcc caaagcgtcc cttgtgagtg gacgcgcctt tctgtctacat atcgttcatt 480
 tgttacaaaa tgaaataatc cacagtgcga tgtgtctggg tccaccgtgc acagcaacat 540
 ccaggctaaa ccaggctgga ccaaaccctc 570

<210> 32
 <211> 645
 <212> DNA
 <213> Homo sapiens

<400> 32
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 ggcagagaaa ccgccctagc agctctcgcg cgcccgggtg aggcggcggt tgctgcccag 120
 gtccgtgcac agactgcttt gcctgttggt gctcttcgga ggcggcgatc cccgaaggcg 180
 agctgaaata cggctgcagg ctacaatttg cagccgacga ttaaggaga cgacgagcgg 240
 gagaggtggc ccaccctcat ggagcgcttg tgctcggtat gcttcgcatt tccccattac 300
 tacattaaac cgtatcatct gaagaggatc cacagagctg tcttacgtgg taatctggag 360
 aaactgaagt accttctgct cactgtattat gacgccaata agagagacag gaaggaaaag 420
 actgccctac atttggcctg tgccactggc caaccggaaa tggtagatct cctgggtgtc 480
 agaagatgtg agcttaacct ctgcgaccgt gaagacagga cacctctgat caaggctgta 540
 caactgaggc aggaggtctg tgcaactctt ctgctgcaaa tggcgccgat ccaaataatta 600
 cggatgtctt tgggaaggact gctctgcact acgctgtgta taatg 645

<210> 33
 <211> 572

<212> DNA

<213> Homo sapiens

<400> 33

```

ctaactgagt aacattcatg aaatgaggct ttctgtggcg gcgtagtggt ttggaattaga 60
aggtaattca gtagagtgtg acttagagaa tattgcaagt gacacattga atcctgcccg 120
tcagggcacc ttttcctcag agcaatccgg ccacacgaat agaaggctgt cgtgaatcac 180
atcagatgta aaatcattcc ttctgtttac tcttttaatt ttcattccttt gcaggtagtg 240
caaattcaac ttcaaataatg gtgtagggtt tgctagattc catatttttt tcttggattt 300
ttgctaatta tttttagcaa aaaatttttg ctcagtggca ccctccctag tgtccatggg 360
ttagggccat gctggggaaa acgggcccgt atttacacac gcgcaaaaca cccagagacg 420
gcacaaggag gttgaactca tgtttcagtt cgcgaaacatt gactccttac gaaagtcaact 480
tcattctaac tagatgcgcc cacttctggt cattatttcg ttgcatgat gtattgcttc 540
ttcacgtttt gtttttattg agcacggagt ag

```

<210> 34

<211> 701

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<222> 34, 41, 43, 52, 58, 72, 180, 204, 205, 211, 214, 228, 243,
253, 269, 271, 295, 315, 343, 429, 439, 457, 483, 517, 529,
546, 554, 555, 557, 560, 561, 565, 627, 632, 637, 644, 655,
659, 662, 672, 680, 689, 690, 698

```

<223> n = A,T,C or G

<400> 34

```

ggcacgaggc taactgtgta acatttatga aatntgctct ntntggcggc gnaggggncg 60
gaatgagaag gnaattcagt agagtgtaac ttagagaata ttgcaaggga cacattgaat 120
cctgcccgtc agggcacctt ttcctcagag caatccggcc acacgaatag aaggctgcgn 180
gaatcacatc agatgtaaaa tcannccctc ngngnactct tttaattntc atcctttgca 240
ggnagggcaa atncaacttc aaatatggng naggttttgc tagattccat atttntttct 300
tggatttttg ctaantattt ttagcaaaaa atttttgctc agnggcaccc tccctagtgt 360
ccatgggtta gggccatgct ggggaaaacg ggccgggtatt tacacacgcg caaaacaccc 420
agagacggna caaggaggnt gaactcatgt ttcagtnccg gaacattgac tccttacgaa 480
agncaactca ttctaactag atgcgcccac ttctggncat tattacgant gcatgaagga 540
ttgctncttc acgnntnggn nttantgagc acgggagtag aaattccagg gctggcttga 600
catcttccct gcatgctccc tcccagngga cngtccntcc cttncacatg agganctgnc 660
gnccatggtg gntttctccn ttgggcctnn tgggactngg a

```

<210> 35

<211> 300

<212> DNA

<213> Homo sapiens

<400> 35

```

gctaactgag taacattcat gaaatgaggc tttctgtggc ggcgtagtgt ttggaattag 60
aaggtaattc agtagagtgt aacttagaga atattgcaag tgacacattg aatcctgccc 120
gtcagggcac cttttcctca gagcaatccg gccacacgaa tagaaggctg tcgtgaatca 180
catcagatgt aaaatcattc cttctgttta ctcttttaat tttcattcctt tgcaaggtag 240
gcaaattcaa cttcaaataat ggtgtagggt ttgctagatt ccatattttt ttcttggatt 300

```

<210> 36

<211> 374

<212> DNA

<213> Homo sapiens

<400> 36

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tggtacgcct gcaggtagcg gtccggaatt cccgggtcga cccacgcgtc cggaggggtc 60

```

```

ctggagaatg ggttacccca gttgtcttat ttaaattggtt acccatcaga ttttaatttt 120
atcttctctt tgagagcttg gtaataagaa gcacttaaat cactccaaag aagactttta 180
aaagggagca gtgaaaaggt ctttaataatt tattgattga attaagaaat actagctaat 240
taagaatctg agtctaaaca gcacagattt ttcttttctg cttttaaatt gtgttttaaa 300
aaaagagaca gggggctggg cgtggtggct cacgcctgta atcctagcac tttgggaggg 360
cgaggcgggt ggat                                     374

```

<210> 37
 <211> 290
 <212> DNA
 <213> Homo sapiens

```

<400> 37
gaggggtcct ggagaaatgg gttacccag ttgtcttatt taaatggta cccatcagat 60
tttaatttta tcttctcttt gagagcttg taataagaag cacttaaatc actccaaaga 120
agactttaaa aagggagcag tgaaaaggct ttaataattt attgattgaa ttaagaaata 180
ctagctaatt aagaatctga gtctaaacag cacagatttt ttctttctgc ttttaaatgg 240
tgttttaaaa aaagagacag ggggctgggc gtggtggctc acgcctgtaa          290

```

<210> 38
 <211> 405
 <212> DNA
 <213> Homo sapiens

```

<400> 38
gccctttcga gcggccgccc gggcaggtag ctgggattac aggcacccac caccacgcct 60
ggctaatttt tttttgtatc ttttagtagg ttttgccatg ttggccaggc tggcttttaa 120
ctctacctc gtgatccacc cgctcggcc ccccaaagtg ctaggaccac aggcgtgagc 180
caccacgccc agccccctgt ctctttttt aaaacacaat taaaagcag aaagaaaaaa 240
tctgtgctgt ttagactcag attcttaatt agctagtatt tcttaattca atcaataaat 300
tattaagacc ttttactgc tcccttttta aagtcttctt tggagtgatt taagtgttc 360
ttattaccaa gctctcaaag agaagataaa attaaatct gatgg          405

```

<210> 39
 <211> 736
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, 22,
 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36,
 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,
 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64,
 65
 <223> n = A,T,C or G

<221> misc_feature
 <222> 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,
 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94,
 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107,
 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118
 <223> n = A,T,C or G

<221> misc_feature
 <222> 119, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636,
 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648,
 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660,
 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671
 <223> n = A,T,C or G

<221> misc_feature

<222> 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683,
684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695,
696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707,
708, 709, 710, 711, 712, 713, 714, 729, 736

<223> n = A,T,C or G

<400> 39

```
gnnnnnnnnnn gacnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 60
nnnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120
cctgggatta caggcaccca ccaccacgcc tggctaattt tttttgtat ctttagtagg 180
gttttgccat gttggccagg ctggtcttta actcctacct cgtgatccac ccgcctcggc 240
cccccaaagt gctaggacca caggcgtgag ccaccacgcc cagccccctg tctctttttt 300
taaaacacaa tttaaaagca gaaagaaaaa atctgtgctg tttagactca gattcttaat 360
tagctagtat ttcttaattc aatcaataaa ttattaagac cttttcactg ctcccttttt 420
aaagtcttct ttggagtgat ttaagtgctt cttattacca agctctcaa gagaagataa 480
aattaaaatc tgatgggtaa ccatttaa atgacaactg gggtaacca tttctccagg 540
acccctctct gcaacagaga gctattctct tctttggcc tagtaaacct ctgctcttaa 600
cctttaaaaa aaaaaaaaaa gtaccnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncatagt 720
ggttctctgng tgaaan 736
```

<210> 40

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 15, 16, 17, 18, 19, 20,
21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34,
35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48,
49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,
63

<223> n = A,T,C or G

<221> misc_feature

<222> 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78,
79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92,
93, 94, 95, 96, 97, 98, 605, 606, 607, 608, 609, 610, 611,
612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623

<223> n = A,T,C or G

<221> misc_feature

<222> 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635,
636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647,
648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659,
660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670

<223> n = A,T,C or G

<221> misc_feature

<222> 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682,
683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694,
695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706,
707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717

<223> n = A,T,C or G

<400> 40

```
gnnnnnnnnnn annnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 60
nnnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120
caccacgcct ggctaatttt tttttgtatc ttttagtagg ttttgccatg ttggccaggc 180
tggtctttta ctctacctc gtgatccacc cgctcggcc ccccaaagtg ctaggaccac 240
aggcgtgagc caccacgcc agccccctgt ctcttttttt aaaacacaat ttaaaagcag 300
```

```

aaagaaaaaa tctgtgctgt ttagactcag attcttaatt agctagtatt tcttaattca 360
atcaataaat tattaagacc ttttcactgc tcccttttta aagtcttctt tggagtgatt 420
taagtgtctt ttattacca gctctcaaag agaagataaa attaaaatct gatgggtaac 480
catttaaata agacaactgg ggtaacccat ttctccagga cccctctctg caacagagag 540
ctattctctt tctttggcct agtaaacctc tgctcttaac ctttaaaaaa aaaaaaaaag 600
taccnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngt 720
atccg                                           725

```

```

<210> 41
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 243, 267
<223> n = A,T,C or G

```

```

<400> 41
ccggaaaaaa agaaccattt ggatacatag gtatggctctg agctatgata tcaattggct 60
tcctagggtt tatcgtgtga gcacaccata tatttacagt aggaatagac gtagacacac 120
gagcatattt caccctcgct accataatca tcgctatccc caccggcgctc aaagtattta 180
gctgactcgc cacactccac ggaagcaata tgaaatgatc tgctgcagtg ctctgagccc 240
tangattcat ctttcttttc accgtangtg gcctgactgg cattgtatta gcaaaactcat 300
cactagacat cgtactacac gacacgtact acgttgtagc ccacttccac tatgtcctat 360
caataggagc tgtatttgcc atcataggag gcttcattca ctgatttccc ctattctcag 420
gctacaccc t agaccaaacc tacgccaaaa tccatttcac tatcatattc atcg      474

```

```

<210> 42
<211> 540
<212> DNA
<213> Homo sapiens

```

```

<400> 42
cataggtagt gtctgagcta tgatatcaat tggcttccta gggtttatcg tgtgagcaca 60
ccatatattt acagtaggaa tagacgtaga cacacgagca tatttcacct ccgtaccat 120
aatcatcgct atccccaccg gcgtcaaagt atttagctga ctgccacac tccacggaag 180
caatatgaaa tgatctgctg cagtgtctctg agccctagga ttcattcttc ttttcaccgt 240
agggtggcctg actggcattg tattagcaaa ctcatcacta gacatcgtag tacacgacac 300
gtactacggt gtagcccact tccactatgt cctatcaata ggagctgtat ttgccatcat 360
aggaggcttc attcactgat ttccccattt ctccaggctac accctagacc aaacctacgc 420
caaaatccat ttcactatca tattcatcgg cgtaaattcta actttcttcc cacaacactt 480
tctcggccta tccggaatgc cccgacgtta ctccggactac cccgatgcat acaccacatg 540

```

```

<210> 43
<211> 587
<212> DNA
<213> Homo sapiens

```

```

<400> 43
gaccatgagt catttagaat agtgataaat agaatacaca gaatagtgat gaaattcaat 60
ttaaaaaaat acgttagcct ccaaaccatt taattcaaat gaaccatca actggatgcc 120
aactctggcg aatgtaggac ctctgagtgg ctgtataatt gttaattcaa atgaaattca 180
tttaaacagt tgacaaactg tcattcaaca attagctcca gtaaataaca gttatttcat 240
cataaaacag tcccttcaaa cacacaattg ttctgctgaa gagttgtcat caacaatcca 300
atgctcacct attcagttgc tctgtgggtc gtgtgggtgc atagcagtgg attccatgaa 360
aggagtcat ttagtgatga gctgccagtc cattcccagg ccaggctgtc gctggccatc 420
cattcagtcg attcagtcag aggcgaatct gttctgcccg aggcttgtgg tcaagcaaaa 480
attcagccct gaaatcaggc acatctgttc gttggactaa acccacaggt tagttcagtc 540
aaagcaggca acccccttgt gggcactgac cctgccactg gggtcac      .      587

```

<210> 44
 <211> 622
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 491, 541, 556, 561, 568, 578, 585
 <223> n = A,T,C or G

<400> 44
 accatgagtc atttagaata gtgataaata gaatacacag aatagtgatg aaattcaatt 60
 taaaaaatca cgtagcctc caaaccattt aattcaaag aacccatcaa ctggatgcc 120
 actctggcga atgtaggacc tctgagtggc tgtataattg ttaattcaaa tgaaattcat 180
 ttaaacagtt gacaaactgt cattcaacaa ttagctccag taaataacag ttatttcac 240
 ataaaacagt cccttcaaac acacaattgt tctgctgaag agttgtcatc aacaatccaa 300
 tgctcaccta ttcagttgct ctgtggtcag tgtggctgca tagcgtggga ttccatgaaa 360
 ggagtcattt tagtggtgga gctgccagtc cttcccgggc cgggtgtcgc tgggccatcc 420
 ttcagtcggt tcgtcatagg cgatctgttc tgcccagagg ttgtggtcag gcaaaattca 480
 gccctgaatt ngggcactct gttcgttggg ctaaaccccc ggtagttca gtcaaggcgg 540
 naaccccctt gtgggnactg ncctggcctt ggggtctnng cggnttgcc gttggggagg 600
 tttggcccca cggcctctgt gg 622

<210> 45
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 45
 aaggcaggaa tgtcaggcct ctgagcccaa gccaaagccat cgcacccct gtgacttgca 60
 cgtatacacc cagatggcct gaagtaactg aagaatcaca aaagaagtga aaaggccctg 120
 cccgcctca actgatgaca ttccaccatg gtgatttgtt cctgccccac cttaactgag 180
 tgattaaccc tgtgaatttc cttctcctgg ctccagaagct cccccactga gcaccttg 240
 acccccgccc ctgcccacca gagaacaacc ccctttgact gtaatttccc atcaccttcc 300
 caaatcctat aaaacggccc caccctatc tccctttgct 340

<210> 46
 <211> 394
 <212> DNA
 <213> Homo sapiens

<400> 46
 aaggcaggaa tgtcaggcct ctgagcccaa gccaaagccat cgcacccct gtgacttgca 60
 cgtatacacc cagatggcct gaagtaactg aagaatcaca aaagaagtga aaaggccctg 120
 cccgcctca actgatgaca ttccaccatg gtgatttgtt cctgccccac cttaactgag 180
 tgattaaccc tgtgaatttc cttctcctgg ctccagaagct cccccactga gcaccttg 240
 acccccgccc ctgcccacca gagaacaacc ccctttgact gtaatttccc atcaccttcc 300
 caaatcctat aaaacggccc caccctatc tccctttgct gactctctt ttggactcag 360
 cccgcctgca cccaggtgaa ataaacagcc atgt 394

<210> 47
 <211> 246
 <212> DNA
 <213> Homo sapiens

<400> 47
 tagccctgat aggcgtatt ttcctcctgg ttttgtattt gaaccgcaag gggataaaaa 60
 agtggatgca taacatcaga gatgcctgca gggatcacat ggaagggtat cattacagat 120
 atgaaatcaa tgcggaccgc gggattaaca aacctcagtt ctaactcgga tgtctgagaa 180
 atattagagg acagaccaag gacaactctg catgagatgt agacttaagc tttatcccta 240
 ctaggc 246

<210> 48
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 48
 acatatttcc ttttctcca ttggccacaa tgggctccaa acaaccacat gcagatttta 60
 caaaaagaaa gttccaaac tgctcaatca aaagaaagat tcaactctgt gagatgaata 120
 cacacatcac aacgaagttt ctccagaatgc ttctgtgttg tttttatgtg aagatatttc 180
 cttttccatc ataggcctct aagtgcacat actatccact tgcagattct acaaaaagag 240
 tgtttcaaaa ctgctcaatc aaaagaaagt atcaactctg tgaggaaatg cacacatcac 300
 aaagaagttt ctccagaatga ttctgtgtag ttttta 336

<210> 49
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 49
 cagaagggtc tgcaagatgc tgttcttggc cactttcttt cccacctggg aaggcggcat 60
 ctatgacttc attggggagt tcatgaaggc cagcgtggat gtgccagacc tgataggctc 120
 aaacctgtgc atgtcccgga atgccggcaa gggagagtag aagatcatgg ttgctgccct 180
 gggctgggac actgctgagc ttattatgtc ccgctgcatt cccctatggg tcggagcccg 240
 gggcattgag tttgactgga agtacatcca gatgagcata gactccaaca tcagtctggg 300
 ccattacatc gtcgcgtctg ctccaggtctg gatgataaca cgctatgatc tgtaccacac 360
 cttccggcca gctgtcctcc tgctgatgtt cctcagtgct tacaaggcct ttgttatgga 420
 gacctctgct cacctctgct cgtggggcag ttgggcagct ctactggccc gagcagtggt 480
 aacggggctg ctggccctca acactttggc cctgtatg 518

<210> 50
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 50
 tctgcaagat gctgttcttg gccactttct tccccacctg ggaaggcggc atctatgact 60
 tcattgggga gttcatgaag gccagcgtgg atgtgccaga cctgataggc ctaaaccttg 120
 tcatgtcccg gaatgccggc aaggagagat acaagatcat ggttgctgcc ctgggctggg 180
 ccattgctga gcttattatg tcccgtgca tccccctatg ggtcggagcc cggggcattg 240
 agtttgactg gaagtacatc cagatgagca tagactccaa catcagctctg gtccattaca 300
 tcgtcgcgtc tgctcaggtc tggatg 326

<210> 51
 <211> 331
 <212> DNA
 <213> Homo sapiens

<400> 51
 acattgaaaa aagtctagac aaactgaaag gcaataaatc ctatgtgaac atggacctct 60
 ctccggtggg agagtgcacg gaccacgctc taacaagtct cttccctaag actcattatg 120
 ccgctggaaa agatgccaaa attttctgga tacctctgtc tcacatgcca gcagctttgc 180
 aagacttttt attgttgaaa cagaaagcag agctggctaa tccaaggca gtgtgactca 240
 gctaaccaca aatgtctcct ccaggctatg aaattggcgg atttcaagaa cacatctcct 300
 tttcaacccc attccttacc tgctccaacc g 331

<210> 52
 <211> 253
 <212> DNA
 <213> Homo sapiens

<400> 52

```

acagaaggga tcgaagacaa attgaaggga gagatgatcg atctccaaca tggcagcctt 60
ttccttagaa caccaaagat tgtctctggc aaagactcta atgtaactgc aaactccaag 120
ctggtcatta tcacggctgg ggcacgtcag caagaggag aaagccgtct taatttggtc 180
cagcgtaacg tgaacatatt taaattcatc attcctaatt ttgtaaaata cagcccgaac 240
tgcaagttgc tta                                     253

```

<210> 53
 <211> 356
 <212> DNA
 <213> Homo sapiens

```

<400> 53
atcgaagaca aattgaaggg agagatgatg gatctccaac atggcagcct tttccttaca 60
acaccaaaga ttgtctctgg caaagactat aatgtaactg caaactccaa gctggtcatt 120
atcacggctg gggcacgtca gcaagaggga gaaagccgtc ttaatttggt ccagcgtaac 180
gtgaacatat ttaaattcat cattcctaaa gttgtaaaat acagcccga ctagcaagttg 240
cttattgttt caaatccagt ggatatcttg acctacgtgg cttggaagat aagtggtttt 300
cccaaaaacc gtgttattgg aagaggttgc aatctggatt caaccgatt ccgcta 356

```

<210> 54
 <211> 570
 <212> DNA
 <213> Homo sapiens

```

<400> 54
ccgctgccgc cgattccgga tctcattgcc acgcgcctcc gacgaccgcc cgacgtgcat 60
tcccgaattcc ttttggttcc aagtccaata tggcaactct aaaggatcag ctgatttata 120
atcttctaaa ggaagaacag acccccaga ataagattac agttggtggg gttggtgctg 180
ttggcatggc ctgtgccatc agtatcttaa tgaaggactt ggcagatgaa cttgctcttg 240
ttgatgtcat cgaagacaaa ttgaaggagg agatgatgga tctccaacat ggcagccttt 300
tccttagaac accaaagatt gtctctggca aagactataa tgtaactgca aactccaagc 360
tggtcattat cacggctggg gcacgtcagc aagagggaga aagccgtctt aatttggtcc 420
agcgtaacgt gaacatattt aaattcatca ttcctaattg tgtaaaatac agcccgaact 480
gcaagttgct tattgtttca aatccagtgg atatcttgac ctacgtggct tggaagataa 540
gtggttttcc caaaaaccgt gttattggaa 570

```

<210> 55
 <211> 223
 <212> DNA
 <213> Homo sapiens

```

<400> 55
gccgctgccg ccgattccgg atctcattgc cacgcgcctc cgacgaccgc ccgacgtgca 60
ttcccgaattc cttttggttc caagtccaat atggcaactc taaaggatca gctgatttat 120
aatcttctaa aggaagaaca gacccccag aataagatta cagttgttgg ggttggtgct 180
gttggcatgg cctgtgccat cagtatctta atgaaggact tgg 223

```

<210> 56
 <211> 337
 <212> DNA
 <213> Homo sapiens

```

<400> 56
gatgcccata agatatggga agctatgtta tcaagccata ttagatatca agcattaata 60
tggaataaaa ccagcctgtt tgggtgggctc ttcacatgga cgcgcatgaa atttggtgcc 120
gtgactagga tcgggggacc tcccttggga gatcaatccc ctgtcctcct gctctttgct 180
ccgtgagaaa catgcaccta tggcctcatg ttctcaaacc gaccaaacca agaaacatct 240
caccaatttt aaatccgcct ggcttgtgag gcctttttgac cccaattcaa gtcttttgat 300
accctgtgaa ttgcacccat actgcccaga tggctag 337

```

<210> 57
 <211> 473

<212> DNA

<213> Homo sapiens

<400> 57

```

aaagatcaaa gtgctgggct cgggtgcgtt cggcacgggt tataagggac tctggatccc 60
agaaggtgag aaagttaaaa ttcccgtcgc tatcaaggaa ttaagagaag caacatctcc 120
gaaagccaac aaggaaatcc tcgatgaagc ctacgtgatg gccagcgtgg acaaccccca 180
cgtgtgccgc ctgctgggca tctgcctcac ctccaccgtg caactcatca cgcagctcat 240
gcccttcggc tgcctcctgg actatgtccg ggaacacaaa gacaatattg gctcccagta 300
cctgctcaac tgggtgtgtgc agatcgcaaa gggcatgaac tacttggagg accgtcgctt 360
gggtgcaccgc gacctggcag ccaggaacgt actggtgaaa acaccgcagc atgtcaagat 420
cacagatttt gggctggcca aactgctggg tgcggaagag aaagaatacc atg 473

```

<210> 58

<211> 487

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 7

<223> n = A,T,C or G

<400> 58

```

actatcnccc aggacatggg accatgctca gctggttgct atcaagacct tgaaagacta 60
taacaacccc cagcaatgga tggaaattca acaagaagcc tccctaattg cagaactgca 120
ccaccccaat attgtctgcc ttctagggtc cgtcactcag gaacaacctg tgtgcatgct 180
ttttgagtat attaatcagg gggatctcca tgagttcctc atcatgagat cccacactc 240
tgatgtttggc tgcagcagtg atgaagatgg gactgtgaaa tccagcctgg accacggaga 300
ttttctgcac attgcaattc agattgcagc tggcatggaa tacctgtcta gtcacttctt 360
tgtccacaag gaccttggca gctcgcaata ttttaatcgg agaggcaact ttcattgtta 420
aggttttcag gacttggggg ctttccagag gaaattttac tccgctgatt tactacaggg 480
tacccaa 487

```

<210> 59

<211> 532

<212> DNA

<213> Homo sapiens

<400> 59

```

atagaagtct gggaaaaaaaa taaaaacaga atttgagaac cttggaccac tctgtccct 60
gtagctcagt catcaaagca gaagtctggc tttgctctat taagattgga aatgtacact 120
accaaact cagtccactg ttgagcccca gtgctggaag ggaggaaggc ctttcttctg 180
tgtaattgc gtaaaggcta caggggttag cctggactaa aggcacctt gtcttttgag 240
ctattcacct cagtagaaaa ggatctaagg gaagatcact gtagtttagt tctgttgacc 300
tgtgcacctc ccccttggaa atgtctgctg gtatttctaa ttccacaggc catcagatgc 360
ctgcttgata atatataaac aataaaaaca accttcaact cttcctattg taatcggtg 420
ccatggatct gatctgtacc atgacctac ataaggctgg atggcaccac aggcctgagg 480
ccccaatgta tgtgtggctg tgggtgtggg tgggagtgtg tctgctgagt aa 532

```

<210> 60

<211> 608

<212> DNA

<213> Homo sapiens

<400> 60

```

tacggccggg atagagtctg gaaaaaataa aaacagaatt tgagaacctt ggaccactcc 60
tgtccctgta gctcagtcac caaagcagaa gtctggcttt gctctattaa gattggaaat 120
gtacactacc aaacactcag tccactgttg agccccagtg ctggaaggga ggaaggcctt 180
tcttctgtgt taattgcgta gaggctacag gggttagcct ggactaaagg catccttctc 240
ttttgagcta ttcacctcag tagaaaagga tctaaggga gatcactgta gtttagttct 300
gttgacctgt gcacctacct cttggaaatg tctgctggta tttctaattc cacaggtcat 360

```



```

cagatgcctg cttgataata tataaacaat aaaaacaacc ttcacttctt cctattgtaa 420
tcgtgtgcca tggatctgat ctgtaccatg accctacata aggctggatg gcaccccagg 480
ctgagggccc caatgtatgt gtggctgtgg gtgtgggtgg gagtgtgtct gctgagtaag 540
gaacacgatt ttcaagattc taaagctcaa ttcaagtgc acattaatga taaactcaga 600
tctgatca                                     608

```

<210> 61

<211> 480

<212> DNA

<213> Homo sapiens

<400> 61

```

tagatgacac tgatgattct caccagtctt atgagtctca ccattctgat gaatctgatg 60
aactggtcac tgattttccc acggacctgc cagcaaccga agttttcact ccagtgtgtcc 120
ccacagtaga cacatatgat ggccgaggtg atagtgtggt ttatggactg aggtcaaaat 180
ctaagaagtt tcgcagacct gacatccagt accctgatgc tacagacgag gacatcacct 240
cacacatgga aagcgaggag ttgaatggtg catacaaggc catccccgtt gccaggacc 300
tgaacgcgct ttctgattgg gacagccgtg ggaaggacag ttatgaaacg agtcagctgg 360
atgaccgagag tgctgaaacc cacagccaca agcagtcagg attatataag cggaagcca 420
atgatgagag caatgagcat tccgatgtga ttgatagtca ggaactttcc aaagtcagcc 480

```

<210> 62

<211> 440

<212> DNA

<213> Homo sapiens

<400> 62

```

aggagatccg gcagatgggc actgagtgcc attacttcat ctgtgatgtg ggcaaccggg 60
aggaggtgta ccagacggcc aaggccgtcc gggagaaggt gggtgacatc accatccctg 120
tgaacaatgc cgccgtggtc catgggaagg gcctaattga cagtgatgat gatgccctcc 180
tcaagtccca acacatcaac accctgggcc agttctggac caccaaggcc ttctgcccgc 240
gtatgctgga gctgcagaat ggccacatcg tgtgcctcaa ctccgtgctg gcactgtctg 300
ccatcccccg tgccatcgac taccgcacat ccaaagcgtc agccttcgcc ttcatggaga 360
gcctgaccct ggggctgctg gactgtccgg gagtcagcgc caccacagtg ctgcccttcc 420
acaccagcac cgagatgttc                                     440

```

<210> 63

<211> 589

<212> DNA

<213> Homo sapiens

<400> 63

```

ggcactgagt gccattactt catctgtgat gtgggcaacc gggaggaggt gtaccagacg 60
gccaaggccg tccgggagaa ggtgggtgac atcaccatcc tggatgaaca tgccgccgtg 120
gtccatggga agggcctaag ggacagtgat gatgatgccc tcctcaagtc ccaacacatc 180
aacaccctgg gccagtcttg gaccaccaag gccttcctgc cgcgtatgct ggagctgcag 240
aatggccaca tcgtgtgcct caactccgtg ctggcactgt ctgccatccc cggtgccatc 300
gactaccgca catccaaagc gtcagccttc gccttcattg agagcctgac cctggggctg 360
ctggactgtc cgggagtcag cgccaccaca gtgctgccct tccacaccag caccgagatg 420
ttccagggca tgagagtcag gtttcccaac ctctttcccc cactgaagcc ggagacgggtg 480
gcccggagga cagtggaaac tgtgcagctc aaccaggccc tctcctcct cccatggaca 540
atgcatgccc tcgttatctt gaaaagcata cttccacagg ctgcactcg 589

```

<210> 64

<211> 313

<212> DNA

<213> Homo sapiens

<400> 64

```

gcatattgtg ctccggggaag ggttcttgtc attgtgggaa gtgcatttgt tctgctgaag 60
agtggatatat ttctggggag ttctgtgact gtgatgacag agactgcgac aaacatgatg 120

```

```

gtctcatttg tacaggggaat ggaatatgta gctgtggaaa ctgtgaatgc tgggatggat 180
ggaatggaaa tgcattgtgaa atctggcttg gctcagaata tccttaacaa ttacatgaga 240
gaggctcggg ttcttatttt ttctgggcca ttagaacata taaatgcgaa ggaaaccatg 300
tatattcacc act                                     313

```

<210> 65
 <211> 223
 <212> DNA
 <213> Homo sapiens

```

<400> 65
tgtgaatcag cagatggcat attgtgctcg ggaagggtt cttgtcattg tgggaagtgc 60
atctgttctg ctgaagagtg gtatatcttct ggggagttct gtgactgtga tgacagagac 120
tgcgacaaac atgatgttct catttgtaca gggaatggaa tatgtagctg tggaaactgt 180
gaatgctggg atggatggaa tggaaatgca tgtgaaatct ggc                                     223

```

<210> 66
 <211> 424
 <212> DNA
 <213> Homo sapiens

```

<400> 66
ggtacagatt tagagcctgt aatcccagct acttgggagt ctaaggcaag agaatccctt 60
gaacctggga ggtggagatt gcagtgagct gagatcacac cattgcccta cagcctgggt 120
gacagtgaga ctgcccgaag aaaaaacaaa agagacagcc ctagtgtatc tgtaagttgc 180
ctttgggtggg tcagtccttc cttttcttaa agaatagtac acattgacag ccaggtagct 240
ctatgatcct gttctataga attcaaaaag tcgacaacct tcctttgttc ctttctgttt 300
tctctgcta cgttagttaa aattggcagt gtctctgctg gaataatccc atctctcttc 360
ctggcttctg ctgagatggc tgattaaatc cttgggtcac acccattatc tctttatcaa 420
atgg                                     424

```

<210> 67
 <211> 487
 <212> DNA
 <213> Homo sapiens

```

<400> 67
ctgtaatccc agctacttgg gagtctaagg caagagaatc ccttgaacct gggagggtgga 60
gattgcagtg agctgagatc acaccattgc cctacagcct ggggtgacagt gagactgccc 120
caagaaaaaa caaaagagac agccctagtg atcttgtaag ttgcctttgg tgggtcagtc 180
tttccctttc ttaaagaata gtacacattg acagccaggt agctctatga tcctgttcta 240
tagaattcaa aaagtcgaca accttccttt gtccctttct gttttctctg cctacgttag 300
tttaattgg cagtgtctct gctggaataa tcccatctct ctccctggct tctgctgaga 360
tggttgatta aatccttggg tcacacccat tatctcttta tcaaattggt gttcaggcta 420
ggctcagtg ttacgcctg taatcccaac actttgggag actgaggagg gcagatcact 480
tgagctc                                     487

```

<210> 68
 <211> 492
 <212> DNA
 <213> Homo sapiens

```

<400> 68
agtgcgcgac cgacgtcaa acgcgcgctc caaccgcag cctcctcctg cctcaccgcc 60
cgaagatggc ggctctcaaa ctctctcctc ccgggcttcg gctctgcgcc tctgcccgcg 120
gatctggggc aacctggtac aagggatgtg tttgttcctt ttccaccagt gctcatcgcc 180
ataccaagtt ttatacagat ccagtagaag ctgtaaaaa catccctgat ggtgccacgg 240
ttttggttgg tggttttggg ctatgtggaa ttccagagaa tcttatagat gctttactga 300
aaactggagt aaaaggacta actgcagtca gcaacaatgc aggggttgac aattttggtt 360
tggggctttt gcttcgggtc aagcagataa aacgcattgt ctcttcatat gtgggagaaa 420
atgcagaatt tgaacgacag tacttatctg gtgaattaga agtggagctg acaccacagg 480
gcacacttgc tg                                     492

```

<210> 69
 <211> 494
 <212> DNA
 <213> Homo sapiens

<400> 69
 tttttttttt tttttttttt tccctttata aggcgatgta cataaatctg aggaatatgg 60
 atgtcttctg gagcaaatgc tccaatatcc acaatttctt caacctctac cactgtgggt 120
 tctgcagctt tgcacattgg caagtggaaa ttccttgac ttttctgaa aatcacgttt 180
 cctgctcggg cgccttcca ggctttcacc aaagcaaat cccctgtaat tgcttcctcc 240
 aaaataaagt gctgaccatt gaactccctc acctctcttg gcttattggc aatggcaaca 300
 ctgccatctt tgttgatatt gatgggcgat cctccttctt gtaccagggt cccataccct 360
 gttgggggtg aaaatgcagg aactccagcc ccgcctgcac ggatcctctc agcaagtgtg 420
 ccctgtgggtg tcagctccac ttctaattca ccagataagt actgtcgttc aaattctgca 480
 ttttctccca cata 494

<210> 70
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 70
 catgatgtat tacaaggagg ccttctggaa gaagaaggat tactgtggct gcatgatcat 60
 tgaagatgaa gatgctccaa tttcaataac cttggatgac accaagccag atgggtcact 120
 gcctgccatc atgggcttta ttcttgcccg gaaagctggt cgacttgcta agctacataa 180
 ggaaataaag aagaagaaaa tctgtgagct ctatgccaaa gtgctgggat cccaagaagc 240
 tttacatcca gtgcattatg aagagaagaa ctggtgtgag gagcagtact ctgggggctg 300
 ctacacggcc tacttcctc ctgggatcat gactcaatat ggaagggtga ttcgtcaacc 360
 cgtgggcagg attttctttg cgggcacaga gactgccaca aagtggagcg gctacatgga 420
 aggggcagtt gaggtctggag aacgagcagc tagggaggtc tt 462

<210> 71
 <211> 626
 <212> DNA
 <213> Homo sapiens

<400> 71
 catgatgtat tacaaggagg ccttctggaa gaagaaggat tactgtggct gctgatcatt 60
 gaaaatgaag atgctcaatt tcaataacct tggatgacac caagccagat ggggtcactgc 120
 ctgcccattc gggcttcatt cttgcccgga aagctggctg acttgctaag ctacataagg 180
 aaataaggaa gaagaaaaatc tgtgagctct atgccaaagt gctgggatcc caagaagctt 240
 tacatccagt gcattatgaa gagaagaact ggtgtgagga gcagtactct gggggctgct 300
 acacggccta cttccctcct gggatcatga ctcaatatgg aagggtgatt cgtcaaccgc 360
 tgggcaggat tttctttgcg ggcacagaga ctgccacaaa gtggagcggc tacatggaag 420
 gggcagttga ggctggagaa cgagcagcta gggaggtctt aaatggtctc gggaagggtga 480
 ccgagaaaga catctgggta caagaacctg aatcaaagga cgttccagcg gtagaaatca 540
 cccacacctt ctgggaaagg aacctgccct ctgtttctg cctgctgaag atcattggat 600
 ttccacatca gtaactgccc tggggc 626

<210> 72
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 72
 tgggtgaactg gtcacatcag aaaaagggtt ttactacatc tattcccaaa catactttcg 60
 atttcaggag gaaataaaaag aaaacacaaa gaacgacaaa caaatggtcc aatatattta 120
 caaatacaca agttatcctg accctatatt gttgatgaaa agtgctagaa atagttgttg 180
 gtctaaagat gcagaatatg gactctattc catctatcaa gggggaatat ttgagcttaa 240
 ggaaaatgac agaatttttg tttctgtaac aaatgagcac ttgatagaca tggaccatga 300
 agccagtttt ttcggggcct ttttagttgg ctaactgacc tggaaga 348

<210> 73
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 122, 123
 <223> n = A,T,C or G

<400> 73
 tcaactcagt ggaacacggt tctcccaaac agattttgta attccgaaaa ccacgcatgc 60
 gcaaacatac gcatacactc ccatgttcct ggacagttta tagctaccat aacctggcat 120
 tnnccaaaac ataccatggt agactcttgg atacacaagg taattttaga gccacattag 180
 gatgaacctt ctgaaaaagt tatgcat 207

<210> 74
 <211> 497
 <212> DNA
 <213> Homo sapiens

<400> 74
 gagcttaagg aaaatgacag aatttttgtt tctgtaacaa atgagcactt gatagacatg 60
 gaccatgaag ccagtttttt cggggccttt ttagttggct aactgacctg gaaagaaaaa 120
 gcaataacct caaagtgact attcagtttt caggatgata cactatgaag atgtttcaaa 180
 aaatctgacc aaaacaaaca aacagaaaac agaaaaacaaa aaaacctcta tgcaatctga 240
 gtagagcagc cacaacacaa aaattctaca acacacactg ttctgaaagt gactcactta 300
 tcccaagaaa atgaaattgc tgaaagatct ttcaggactc tacctcatat cagtttgcta 360
 gcagaaatct agaagactgt cagcttccaa acattaatgc aatggttaac atcttctgtc 420
 tttataatct actccttcta aagactgtag aagaaagcgc aacaatccat ctctcaagta 480
 gtgtatcaca gtagtag 497

<210> 75
 <211> 275
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 96
 <223> n = A,T,C or G

<400> 75
 tgagcttaag gaaaatgaca gaatttttgt ttctgtaaca aatgagcact tgatagacat 60
 ggaccatgaa gccagttttt tcggggcctt tttagntggc taactgaccc tggaaagaaa 120
 aagcaataac ctcaaagtga ctattcagtt ttcaggatga tacactatga agatgtttca 180
 aaaaatctga ccaaaacaaa caaacagaaa acagaaaaaca aaaaaacctc tatgcaatct 240
 gagttagagca gccacaacca aaaaattcta caaca 275

<210> 76
 <211> 530
 <212> DNA
 <213> Homo sapiens

<400> 76
 gacagaaggg gcctctccgc cccgcgtcca gctcgcccag ctcgcccagc gtccgccgcg 60
 cctcggccaa ggcttcaacg gaccacacca aaatgccatc tcaaatggaa cacgccatgg 120
 aaaccatgat gtttacattt cacaatttcg ctggggataa aggctactta acaaggagg 180
 acctgagagt actcatggaa aaggagtctc ctggattttt ggaaaaatcaa aaagacctc 240
 tggctgtgga caaaataatg aaggacctgg accagtgtag agatggcaaa gtgggcttcc 300
 agagcttctt ttccctaatt gcgggcctca ccattgcatg taatgactat tttgtagtac 360

acatgaagca gaagggaaaag aagtaggcag aaatgagcag ttcgctcctc cttgataaga 420
 gttgtcccaa aggggtcgctt aaggaatctg cccacacagct tcccccatag aaggatttca 480
 tgagcagatc aggacactta gcaaatgtaa aaataaaaatc taactctcat 530

<210> 77
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 77
 gcctctccgc cccgcgtcca gctcgcccag ctgcccagc gtccgcccgc cctcggccaa 60
 ggcttcaacg gaccacacca aaatgccatc tcaaatggaa cacgccatgg aaaccatgat 120
 gtttacattt cacaatttcg ctggggataa aggtacttta acaaaggagg acctgagagt 180
 actcatggaa aaggagttcc ctggattttt ggaaaaatcaa aaagaccctc tggctgtgga 240
 caaaataatg aaggacctgg accagtgtag agatggcaaa gtgggcttcc agagcttctt 300
 ttccctaatt gcgggcctca ccattgcatg taatgactat t 341

<210> 78
 <211> 350
 <212> DNA
 <213> Homo sapiens

<400> 78
 ggctctccgc cccgcgtgc agctcgccca gctcgcccag cgccgcccgc gcctcggcca 60
 aggtttcaac ggaccacacc aaaatgccat ctcaaatgga acacgccatg gaaaccatga 120
 tgtttacatt tcacaaattc gctggggata aaggctactt acaaaggagg gacctgagag 180
 tactcatgga aaaggagttc cctggatttt tggaaaatca aaaagaccct ctggctgtgg 240
 aaaaaataat gaaggacctg gaccagtgtg gagatggcaa agtgggcttc cagagcttct 300
 ttccctaatt tgcgggcctc accattgcat gcaatgacta tttttagta 350

<210> 79
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 79
 acagaaggga caaagagatc tggacagaat cgccggacag gtggcagctg ccaacaagaa 60
 gcattagaac aaaccatgct gggtaataa attgcctcat tcgtaaacaa aaaaaaaaaa 120
 aaaaaaaaaa agtttttttt ttttcccccc attttttatt ttttttcccc c 171

<210> 80
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 80
 tggcgctgtg ttctatggag gaaaacaaaag caggagaggg gagagtgact gctgggtaag 60
 gtcttcctcc acctcctttg catctttgct cacatgccag cttctcctgg gcttcacaga 120
 ccaccaattt ataatttcca tttaaaactt ccattttatt tttttaattt ttattttatt 180
 atttatttat tacgagatgg ggtttcgctc ttgttgccca agattgcacc actgactgac 240
 agcctgggtg acagagcgag actttgtcaa aaagaaagaa agaaagaagg aaaggaagga 300
 aggaaggaag gaaggaagga aaagaaaaga aagggaagaa aaaaagaaaa agaaagaaag 360
 aaagaaaaaa aaaaaaaagg ggggcccc 389

<210> 81
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 81
 tgcagatata gtggtggagt ggaagtttgc gttggtagag aatgggggag ttacccgctg 60
 ggaagaatgc agcaatagat tcctagaaac tgcccatgag gataaagtgg ttcacgcatg 120

```

gtgggggatt cactgattca gtttgcatag taatggagaa gctgtagaac aatgtggaag 180
aagctgaggt tgtggaacac actgaataaa ataaaggcag tgtgactcca aattcagcca 240
tctgaattgt ttaaatttgc tagtggattt tgtctactgt gcagaaatat atatgtctaa 300
tgtgcagaaa tatatatgtg tgtatgtgtg tatatatatg cacacacaca cagataatgc 360
ttccagtga tgtgaacttc ttttccctgt ggcactgatt gacagacttg tgcgatcca 420
ttattacttt                                     430

```

<210> 82
 <211> 556
 <212> DNA
 <213> Homo sapiens

```

<400> 82
tttttttttt tttttttttt ttttttttaa gatattaaaa ttcaggtttt attatttgtt 60
cagttataat aattttaagt aatatattgct gtattctcag agcaaagatg tatttctgta 120
ccactgtcct gtataaattt gttacccaag atagtgactg gtatgaaagg agagggaaga 180
gggtgacaga tggaaacgat tgcgttagga cagtccatct ggccagatgc ggtgggggag 240
gggagaagaa gtgggagaga gatggctcta cagatgctcc catgggtaaa tcatgggtgc 300
atccctccct cgagtcgggc tgtgcctgaa cttcacagtc ctctaagagg tgtcattcag 360
gccacctcac tcagcctatg cccaacccca ctactttcc ctttccttat gggctgcccc 420
cgcaactgac ttccatgggt attggttctc attagggcct ttgtttctac accagcctta 480
gatcattaag acaaagacgt acttgctacc ctcatagcac ataacaacgc ctggcagatg 540
aaaatcaaac aaaaag                                     556

```

<210> 83
 <211> 543
 <212> DNA
 <213> Homo sapiens

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<400> 83
tgcagtggac atgtcgggcg ggacggtcac agtccttgaa aagtcctctgt atcaaaaggc 60
caactgaagc aatacttcta cgagaccaag tgcaatccca tgggttacac aaaagaaggc 120
tgcaggggca tagacaaaag gcattggaac tcccagtgcc gaactacca gtcgtacgtg 180
cgggccctta ccatggatag caaaaagaga attggctgac gattcataag gatagacact 240
tcttgtgtat gtacattgac cattaaaagg ggaagatagt ggatttatgt tgtatagatt 300
agattatatt gagacaaaaa ttatctattt gtatatatac ataacagggt aaattattca 360
gttaagaaaa aaataatttt atgaactgca tgtataaatg aagtttatac agtacagtgg 420
ttctacaatc tattttattg acatgtccat gaccagaagg gaaacagtca tttgcgcaca 480
acttaaaaag tctgcattac attccttgat aatgttgtgg tttgttgccg ttgccaagaa 540
ctg                                     543

```

<210> 84
 <211> 242
 <212> DNA
 <213> Homo sapiens

```

<400> 84
cggcggcaga caaaaagact gcagtggaca tgcggggcgg gacggtcaca gtccttgaaa 60
aggctccctgt atcaaaaggc caactgaagc aatacttcta cgagaccaag tgcaatccca 120
tgggttacac aaaagaaggc tgcaggggca tagacaaaag gcattggaac tcccagtgcc 180
gaactacca gtcgtacgtg cgggccctta ccatggatag caaaaagaga attggctggc 240
ga                                     242

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<210> 85
 <211> 350
 <212> DNA
 <213> Homo sapiens

```

<400> 85
tttttttttt tttttttttt tctttttttt tttttttttt tttattatta attatcttct 60
ttattaatac tcacatgtaa cctttgcttt ttacacaaaa gtctgcttta gaagaatgcc 120
tcctcggtt atcatgcca atggggcttt ttgtttcttg accacttccc ctttctccac 180

```

```

ccccaccccc acatccaaat tactcttaac atgttcacag ataccacgaa tattttgtaa 240
acaagatttg gggtactgga acttgatttc attaacatcc cacttcaaaa tggaaggcag 300
gtggaggaca gggtaaagaa taggagaaag aggacaagag aaggcaaaaga 350

```

```

<210> 86
<211> 448
<212> DNA
<213> Homo sapiens

```

```

<400> 86
acagtttaag aagtggtagc attttgcatt atgaatgacc tgacttttag ccaccaggta 60
ctcttttaac agttttcctt atcagaggcc ctccctgtgct ggtgaccag catctgagtt 120
aggttccagc atgtaaaagag ctgggagggc ggagaattct tagcatacat tcagacgttt 180
tttctgcaca ataataagtc catctgtcac ttgcattcca ctttttgtaa catagaaaga 240
gtctgaccct ttaatccaaa aggtcttttt acattgtgaa tgctgtggga aggcaatttc 300
tctgcacaca agaggctacg ttttggaagt gatgtatgtt atttgatgac tgaaaatgaa 360
ctgtaaatgc tcctagagta tattcctctg ctgaacaaaa ttaaacttca aaaaaatcta 420
acagtaacac acccctgctt gggaccct 448

```

```

<210> 87
<211> 586
<212> DNA
<213> Homo sapiens

```

```

<400> 87
aatttacaga acagtttaag aagtggtagc attttgcatt atgaatgacc tgacttttag 60
ccaccaggta ctcttttaac agttttcctt atcagaggcc ctccctgtgct ggtgaccag 120
catctgagtt aggttccagc atgtaaaagag ctgggagggc ggagaattct tagcatacat 180
tcagacgttt tttctgcaca ataataagtc catctgtcac ttgcattcca ctttttgtaa 240
catagaaaga gtctgaccct ttaatccaaa aggtcttttt acattgtgaa tgctgtggga 300
aggcaatttc tctgcacaca agaggctacg ttttggaagt gatgtatgtt atttgatgac 360
tgaaaatgaa ctgtaaatgc tcctagagta tattcctctg ctgaacaaaa ttaaacttca 420
aaaaaatcta acagtaacac acccctgctt gggaccctag ctatatgcat tttatgtgac 480
cttgccatgc ttcagtgaac atactaattc tatgtctagc acatgttgat ttcctatgta 540
ttctgggtat tctattaaaag gaaactttga actatgtcaa aaaaaa 586

```

```

<210> 88
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<400> 88
aatgaattta cagaacagtt taagaagtgg tgacattttg catgatgaat gacctgactt 60
ttagccacca ggtactcttt aaacagtttt ccttatcaga ggccctcctg tgctggtgac 120
ccagcatctg agtttaggtc cagcatgtaa agagctggga gggcggagaa ttcttagcat 180
acattcagac gttttttctg cac 203

```

```

<210> 89
<211> 548
<212> DNA
<213> Homo sapiens

```

```

<400> 89
tgctggaagg cattcgcatt tgccggcgag ggcttccgca accggatcgt cttccaggag 60
ttccgccaac gctacgagat cctggcgagg aatgccatcc ccaaaggctt catggacggg 120
aagcaggcct gcattctcat gatcaaagcc ctggaacttg accccaactt atacaggata 180
gggcagagca aaatcttctt ccgaactggc gtcctggccc acctagagga ggagcgagat 240
ttgaagatca ccgatgtcat catggccttc caggcgatgt gtcgtggcta cttggccaga 300
aaggcttttg ccaagaggca gcagcagctg accgccatga aggtgattca gaggaactgc 360
gctgcctacc tcaagctgcg gaactggcag ttggtggaggc ttttcaccaa agtgaagcca 420
ctgctgcagg tgacacggca ggaggaggag atgcaagcca aggaggatga actgcagaag 480
accaaggagc ggcagcagaa ggcagagaat gagcttaagg agctggaaca gaagcactcg 540

```

cagctgac

548

<210> 90

<211> 595

<212> DNA

<213> Homo sapiens

<400> 90

tgcaatgggg	tgctggaagg	cattcgcac	tgccggcagg	gcttcccca	ccgcatcg	60
ttccaggagt	tccgccaacg	ctacgagac	ctggcggcga	atgccatccc	caaaggcttc	120
atggacggga	agcaggcctg	cattctcatg	atcaaagccc	tggaacttga	ccccaactta	180
tacaggatag	ggcagagcaa	aattcttctc	cgaactggcg	tcctggccca	cctagaggag	240
gagcgagatt	tgaagatcac	cgatgtcatc	atggccttcc	aggcgatgtg	tcgtggctac	300
ttggccagaa	aggcttttgc	caagaggcag	cagcagctga	ccgccatgaa	ggtgattcag	360
aggaactgcg	ctgcctacct	caagctgcgg	aactggcagt	ggtggaggct	tttcacaaaa	420
gtgaagccac	tgctgcagg	gacacggcag	gaggaggaga	tgaggcccaa	ggaggatgaa	480
ctgcagaaga	ccaaggagcg	gcagcagaag	gcagagaatg	agcttaagga	gctggaacag	540
aagcactcgc	agctgaccga	ggagaagaac	ctgctacagg	aacagctgca	ggcag	595

<210> 91

<211> 498

<212> DNA

<213> Homo sapiens

<400> 91

tgacagagca	agacttggtt	tcaaaaaaga	gaaacacagt	tgccctcca	tatctgagtt	60
tcacagacga	aaaaatttca	gaagaaaaaa	aaatcaatgg	ctgtatttgt	actaaacatg	120
cccaggcttt	ttttcttatt	gttatccctt	aaacaataca	acaactattt	ttatagcatt	180
tacattgtat	tagatgttat	aactactcta	aagaggattt	aaagtatatg	gaatgatgtg	240
cataggttat	atgcaaatat	tatactatct	atatcaggga	cttgagcatc	cttggatttt	300
ggtatgtgtg	ggaggtcctg	aaaccaatgt	cctgtggata	ctgaaggata	actgtactaa	360
tttgagagatt	tctctctact	atgatcaaga	ttttcaaaca	ttacattgct	gattacatta	420
catcgttaca	ttgtgattct	ttccaagact	tgagataaag	tttgggaaga	agtaccactt	480
gtttcagttt	atgaaata					498

<210> 92

<211> 510

<212> DNA

<213> Homo sapiens

<400> 92

aaacacagtt	ggccctccat	atctgagttt	cacagacgaa	aaatattcag	aagaaaaaaa	60
aatcaatggc	tgtatttgta	ctaaacatgc	ccaggctttt	tttcttattg	ttatccccta	120
aacaatacaa	caactatctt	tatagcattt	acattgtatt	agatgttata	actactctaa	180
agaggattta	aagtatatgg	aatgatgtgc	atagggttata	tgcaaatact	atactattta	240
tatcagggac	ttgagcatcc	ttggattttg	gtatgtgtgg	gaggtcctga	aaccaatgtc	300
ctgtggatag	tgaaggataa	ctgtactaat	ttggagattt	ctctctacta	tgatcaagat	360
tttcaaacat	tacattgctg	attacattac	atcgttacat	tgtgattctt	tccaagactt	420
gagataaagt	ttgggaagaa	gttaccactt	gtttcagttt	atgaaataga	aaaaaaaaaa	480
aggggtaaa	catgaaataa	aaacctaacc				510

<210> 93

<211> 299

<212> DNA

<213> Homo sapiens

<400> 93

tggtatcccc	gggctgcagg	aattcggcac	gagcagaagt	gcctgagacg	cggagacatg	60
gctggtgtta	aatggagcta	ttcaatagca	gtgacgcgct	ctcctcagcc	accaaatgtc	120
cctgacaccc	tccccagccc	ccacagataa	catcagctga	ggtttttttc	agtatgaacc	180
tgtcctaaat	caattcctca	aagtgtgcac	aaaactaaag	aatataaata	aacaaaagaa	240
aggtgaaaaa	aaaaaaaaaa	aaaaaaactc	gggggggggc	ccgggccccca	attccccct	299

<210> 94
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 163, 189, 219, 222, 225, 226, 228, 233
 <223> n = A,T,C or G

<400> 94
 cagaagtgcc tgagacgcgg agacatggct ggtgttaaat ggagctattc aatagcagtg 60
 acgcgctctc ctcagccacc aaatgtccct gacaccctcc ccagcccca cagataacat 120
 cagctgaggt ttttttcagt atgaacctgt cctaaatcaa ttntcacaag tgtgcacaaa 180
 actaaagant ataaataaac aaaagaaagg tgaaaaana anaannanaa aana 234

<210> 95
 <211> 534
 <212> DNA
 <213> Homo sapiens

<400> 95
 tgaagcagaa gtacctggac tatgccagag tccccaatag caatccccct gaatatgagt 60
 tcttctgggg cctgcgctct tactatgaga ccagcaagat gaaagtcctc aagtttgcct 120
 gcaagggtaca aaagaaggat cccaaggaat gggcagctca gtaccgagag gcgatggaag 180
 cagatttgag ggctgcagct gaggtctcag ctgaagccaa ggctagggcc gagattagag 240
 ctcgaatggg cattgggctc ggctcggaga atgctgccgg gccctgcaac tgggacgaag 300
 ctgatatcgg accctgggcc aaagcccgga tccaggcggg agcagaagct aaagccaaag 360
 cccaagagag tggcagtggc agcactgggt ccagtaccag taccaataac agtgccagtg 420
 ccagtgccag caccagtggg ggcttcagtg ctggtgccag cctgaccgcc actctcacat 480
 ttgggctctt cgctggcctt ggtggagctg gtgccagcac cagtggcagc tctg 534

<210> 96
 <211> 351
 <212> DNA
 <213> Homo sapiens

<400> 96
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 tcaattgatt gatagtggct gcctagagtg ctgtgttgag taggtttctg aggatgcacc 120
 ctggcttgaa gagaaagact ggcaggatta acaatatcta aaatctcact tgtaggagaa 180
 accacaggca ccagagctgc cactggtgct ggccaccagct ccaccaaggc cagcgaagag 240
 cccaaatgtg agagtggcgg tcaggctggc accagcactg aagccaccac tgggtgctggc 300
 actggcactg gcactgttat tggtagctgt actggcacca gtgctggcac t 351

<210> 97
 <211> 610
 <212> DNA
 <213> Homo sapiens

<400> 97
 tttatgaatg ataaagatgt ttccggaaaag atgaacaggt cacaatttga agaactctgt 60
 gctgaacttc tgcaaaagat agaagtaccc ctttattcac tggttgaaca aactcatctc 120
 aaagtagaag atgtgagtg agttgagatt gttggaggca ctacacgaat tccagctgtg 180
 aaggaaagaa ttgccaaatt ctttgaaaaa gatattagca caaactcaa tgcagatgaa 240
 gcagtagcca gaggatgtgc attacagtgt gcaatacttt ccccggcatt taaagttaga 300
 gaattttccg tcacagatgc agttcctttt ccaatatctc tgatctggaa ccatgattca 360
 gaagatactg aaggtgttca tgaagtcttt agtcgaaacc atgctgctcc tttctccaaa 420
 gttctcacct ttctgagaag ggggcctttt gagctagaag ctttctattc tgatcccaaa 480
 ggagttccat atccagaagc aaaaataggc cgctttgtag ttcagaatgt ttctgcacag 540
 aaagatggag aaaaatctag agtaaaagtc aaagtgcag tcaacacca tggcattttc 600

accatctcta

610

<210> 98

<211> 551

<212> DNA

<213> Homo sapiens

<400> 98

```

tttttttttt tttttttttt tagcattatc atcttaccct ctgtctcaat atacatgtta 60
agaaggtctt tccctaactg ccagaccaag ttggcttcaa taggcagctc aacattcacc 120
acctttatct tgggcttttt agcttctgga ggctgggtcaa cttttttttc atttgctttg 180
tcagcatctg ggattttgtt ttcttctgag gtaagttcag gtgaaggggg agactgtgag 240
gtttgttgag catcagtttg tacctggggc tgtgttccag cttcactgtt gtcttgctgg 300
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tcagaagaca ttctattctc ctcaattggg actttctcca ccatagatgc cgtagagatg 420
gtgaaaatgc catgggtgtt gactcgcact ttgactttta ctctagattt ttctccatct 480
ttctgtgcag aaacattctg aactacaaag cggcctattt ttgcttctgg atatggaact 540
ccttggggat c

```

551

<210> 99

<211> 550

<212> DNA

<213> Homo sapiens

<400> 99

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tgtggggctc tatttttgc tttgtttct ggtgagagag tgaggaagca ttctttcctt 60
cactaagttt gtctttcttg tcttctggat agattgattt taagagacta agggaattta 120
caaaactaaag attttagtca tctgttgaa aaggagactt taagattgtt tagggctggg 180
cggggtgact cacatctgta atcccagcac tttgggaggc caaggcaggc agaacacttg 240
aaggagtctg agaccagcgt ggccaacgtg gtgaaaccct gtctctacta aaaatacaaa 300
aattgttttag ctctgttttt cataatagaa atagaaaagg taaaattgct ttcttcttga 360
aaagaacaag tattgttcat ccaagaaggg tttttgtgac tgaatcagca gtgcctgccc 420
tagtcatagc tgtgcttcaa aaacctcagc atgattagtg ttggagcaaa acaaggaagc 480
aaagcaaata ctgtttttga aattctatct gttgcttgaa ctattttgta ataattaaac 540
tttgatgttg

```

550

<210> 100

<211> 300

<212> DNA

<213> Homo sapiens

<400> 100

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ctaagcttta agatttaaaa aatgttcaat gttgaaattt ctgtggggct ctatttttgc 60
tttggtcttc tggtagagag gtgaggaagc attctttcct tcaactaagt tgtctttctt 120
gtcttctgga tagattgatt ttaagagact aagggaattt acaaactaaa gattttagtc 180
atctgggtgga aaaggagact ttaagattgt tttagggctgg gcgggggtgac tcacatctgt 240
aatcccagca ctttggggagg ccaaggcagg cagaacactt gaaggagttc aagaccagcg 300

```

<210> 101

<211> 583

<212> DNA

<213> Homo sapiens

<400> 101

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gttttagtca tgagcatgct gttgtctaga gtgggcgggg atgacgtggt tggagtgggt 60
gcgctgctct gtacttgatt tttttgagtc tgaaattagc tttccaggct ggggcaggga 120
ggggagcaca ggtggatcag tactgcccc aagcgggtga gctttgggtg tggatcaaat 180
actgctgcgc cctgtctgca caaacatatt tctctcttcc agcccttcag aagtgtattg 240
gaatatgtcg ataacaataa tgatgggtgg gaagatgatg atgatgtggg taattcttgc 300
taccttattg ggtccaagct ccccaaat cgttgacaaa agcactctac atacattctc 360
tttagtctct atcaaaccac ctttcagagt aggatattag gtcctatttt aaagatgaag 420

```

gagctcgggc tcagagagag atcgttttaga cacacacaca acttttgaat gaaacattta 480
 cagccgggcg cgggtggcgcg tgcctgtagt cccagctact tgggaggctg aggtgaggag 540
 atcgcttgag tccaggaggt ctgggctgta gtgcgctatg ccg 583

<210> 102
 <211> 517
 <212> DNA
 <213> Homo sapiens

<400> 102
 cccggaaggc gacgggaagg agccgagctt gggcatggc ggccggggc gcgctgctgg 60
 tgatgggctg gagcggtctg gggaaatcca ccgtgggctg cctgctggca tctgagctgg 120
 gatggaaatt ctatgatgct gatgattatc acccgaggga aaatcgagg aagatgggaa 180
 aaggcatacc gctcaatgac caggaccgga ttccatggct ctgtaacttg catgacattt 240
 tactaagaga tgtagcctcg ggacagcgtg tggttctagc ctgttcagcc ctgaagaaaa 300
 cgtacagaga catattaaca caaggaaaag atgggtgtagc tctgaagtgt gaggagtcgg 360
 gaaaggaagc aaagcaggct gagatgcagc tcctgggtgt ccatctgagc gggtcgtttg 420
 aggtcatctc tggacgctta ctcaaaagag agggacattt tatgccccct gaattattgc 480
 agtcccagtt tgagactctg gagccccag cagctcc 517

<210> 103
 <211> 590
 <212> DNA
 <213> Homo sapiens

<400> 103
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 gcatgagcaa gaatgttcta aacaatgtaa cgatttccag cattgattac agaatttcct 120
 ctgatcattt gatttggtta tagatgaatt taaacttcaa ttttaagctg acttttaaaa 180
 ctccccctct gcttcctgat gaaccagcat aattcctaaa attacacctt aacaagtctg 240
 tcttgacaca ttggggtttg cctttagaaa catttagaat ctattatggg caaggcggct 300
 ggaacgaggt ttgggatggc acaatgattt atgcttagtt ctgtttggac cactgataca 360
 aaatcattgt catttcattt ttagggtttc cataattgta gcaattatct ctgaaacatt 420
 tttgtccaca cttatttggg taaagttttc tggagctgct gggggctcca gagtctcaaa 480
 ctgggactgc aataattcag ggggcataaa atgtccctct cttttgagta agcgtccaga 540
 gatgacctca aacgaccgcg tcagatggac caccaggagc tgcattctcag 590

<210> 104
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 104
 gagacttaca aattgctgct tgtccaaatc aggatccact gcaaggaaca acaggcctta 60
 ttccactgct ggggattggg gtgtgggagc acgcttacta ccttcagtat aaaaat 116

<210> 105
 <211> 574
 <212> DNA
 <213> Homo sapiens

<400> 105
 ttcttttttt tttttttttt tttgcacaaa gcatttacta ttttcaatca cttgcccaat 60
 aacaaaatgt ttagtaagaa attattcaga acattaagt gtttatgaaa taagtgacta 120
 agcaacatca agaaatgcta caatagagca gcttactgta ttctgcagta ctctatacca 180
 ctacaaaaac agtcataaag agcttaacat actcagcata acgatcgtgg tctacttttt 240
 gcaagccatg tatctttcag ttacattctc ccagttgatt acattccaaa tagcttttag 300
 ataatcaggc ctgacatttt tatactgaag gtagtaagcg tgctcccaca caccaatccc 360
 cagcagtgga ataaggcctg ttgttccttg cagtggatcc tgatttggac aagcagcaat 420
 ttgtaagtgt ccccgttcct tattgaaacc aagccaaccc caacctgagc cttggacacc 480
 aacagatgca gccgtcagct tctccttaaa cttgtcaaa gaaccaaagt cacgtttgat 540
 ggcttcacg aactcccctt tgggttctcc acca 574

<210> 106
 <211> 474
 <212> DNA
 <213> Homo sapiens

<400> 106
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 tcacacaatt ggaaaataaa tgtttcttca atgaataatc aaacaaaaat tatccaggac 120
 cttatagggt tttcagtatg taccaggctt gatgcacatc ttagaagaca ggacattatc 180
 ttgctgggat cattagggtg tgatcagcat aacgatcgtg gtttactttt tgcaagccat 240
 gtatctttca gttacattct cccagttgat tacattccaa atagctttta gataatcagg 300
 cctgacattt ttatactgaa ggtagtaagc gtgctccac acatcaatcc ccagcagtg 360
 aataaggcct gttgttcctt gcagtggatc ctgatttgga caagcagcaa tttgtaagt 420
 tccccgttcc ttattgaaac caagccaacc ccaacctgag cttgggacac caac 474

<210> 107
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 107
 gggaaccggt ggcgcggcgc actgcgcagg cggccggact ccgctcagtt tccggtgcgg 60
 cgaacaccaa agtccgggaa ctttaagcatt ttcggtttct agggttgtta cgaagctgca 120
 ggagcgagat ggaggtggac gcaccgggtg ttgatgttcg agatggtctc cgggagcggc 180
 gaggtcttag cgagggaggg aggcagaact tcgatgtgag gcctcagttc ggggcaaagt 240
 ggcttcccaa aactcctac tggttggacc tctggctttt catccttttc gatgtggtgg 300
 tgtttctctt tgtgtatttt ttgccatgac ttgttcgctg atatctaaat taagaagttg 360
 gttcttgagt gaattctgaa aatggctaca aacttcttga ataaagaaga caggactctc 420
 aatagaagaa tttcacatct ccaagggacc ctctctttca ttttacactt tgttactaat 480
 ttgcagaact ctattaattg ggtaggattt caccatttcc tagcta 526

<210> 108
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 108
 gaaccggggg cgcggcgcac tgcgcatgcg gccggactcc gctcagtttc cgggtgcggcg 60
 aacaccaaaag tccgggaact taagcatttt cggtttctag ggttgttacg aagctgcagg 120
 agcgagatgg aggtggacgc accgggtgtt gatggtcgag atggtctccg ggagcggcga 180
 ggcttttagcg agggaggag gcagaacttc gatgtgaggc ctcagtctgg ggcaaattgg 240
 cttcccaaac actcctactg gttggacctc tggcttttca tccttttcga tgggggggag 300
 cttctctctg tgtattttct gccatgacct gttcagtgac accc 344

<210> 109
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 109
 gaaccggggg cgcggcgcac tgcgcaggcg gccggactcc gctcagtttc cgggtgcggcg 60
 aacaccaaaag tccgggaact taagcatttt cggtttctag ggttgttacg aagctgcagg 120
 agcgagatgg aggtggacgc accgggtgtt gatggtcgag atggtctccg ggagcggcga 180
 ggcttttagcg agggaggag gcagaacttc gatgtgaggc ctcagtctgg ggcaaattgg 240
 cttcccaaac actcctactg gttggacctc tggcttttca tccttttcga tgtggaggag 300
 attctctttg tgtatttttt gccatgacct gt 332

<210> 110
 <211> 545
 <212> DNA
 <213> Homo sapiens

```

<400> 110
cggctgcgag aagacgacag aaggggagtt tccggtgcg cgaacaccaa agtccgggaa 60
cttaagcatt ttcggtttct agggttgtta cgaagctgca ggagcgagat ggaggtggac 120
gcaccgggtg ttgatgtgag agatgggtctc cgaggagcgc gaggcttttag cgaggaggag 180
aggcagaact tcgatgtgag gcctcagttc ggggcaaatg ggcttcccaa aactccctac 240
tggttgacc tctggctttt catccttttc gatgtggtgg tgtttctctt tgtgtatttt 300
ttgccatgac ttgttcgctg atatctaaat taagaagttg gttcttgagt gaattctgaa 360
aatggctaca aacttcttga ataaagaaga caggactctc aatagaagaa ttccacatct 420
ccaagggacc cttcctttca ttttacactt tgttactaat ttgcagaact ctattaattg 480
ggtaggattt caccatttcc tagctaagtt cttaaaatta aaccctttgg ttcgtgttta 540
aaaac 545

```

```

<210> 111
<211> 329
<212> DNA
<213> Homo sapiens

```

```

<400> 111
gagtttccgg tgcggcgaac accaaagtcc gggaacttaa gcattttcgg tttctagggt 60
tgttacgaag ctgcaggagc gagatggagg tggacgcacc ggggtgtgat ggtcgagatg 120
gtctccggga gcggcgaggc ttttagcgagg gagggaggca gaacttcgat gtgaggcttc 180
agtctggggc aaatgggctt cccaaacact cctactggtt ggacctctgg cttttcatcc 240
ttttcgatga ggaggtgttt ctctttgtgt attttttgcc atgacttgtt cgctgatatc 300
taaatttaca agttggatct tgagtgaaa 329

```

```

<210> 112
<211> 284
<212> DNA
<213> Homo sapiens

```

```

<400> 112
gcgcggcgcc tgcctcggc cggcgcctat cagccgactt agaactggtg cggaccaggg 60
gaatccgact gtttaattaa aacaaagcat cgcgaggcc cgcgcggggt gttgacgcga 120
tgtgatttct gccagtgct ctgaatgcca tattaaaaat aaactttaaa atttaaaagg 180
gggcegtttt tctctgattc ccacccggtt aaaaaccctt ttgggggggg ggccccccc 240
ccctcatggg gcgggggaaa aaggcctttt ttgggaaatt tggg 284

```

```

<210> 113
<211> 522
<212> DNA
<213> Homo sapiens

```

```

<400> 113
gttgcaggtc actgtagcgg gacttctttt ggttttcttt ctctttgggg cacctctgga 60
ctcactcccc agcatgaagg cgctgagccc ggtgcgcggc tgctacgagg cgggtgtgctg 120
cctgtcgga cgcagtctgg ccatcgccc gggccgagg aagggcccgg cagctgagga 180
gccgctgagc ttgctggacg acatgaacca ctgctactcc cgcctgcccgg aactgggtacc 240
cggagtcctc agaggcactc agcttagcca ggtggaaatc ctacagcgcg tcatcgacta 300
cattctcgac ctgcaggtag tctggccga gccagcccct ggacccctg atggccccc 360
ccttcccatc cagacagccg agcccgtcc ggaacttgct atctccaacg acaaaaggag 420
cttttgccac tgactccggc cgtgtcctga cacctccaga acgcaggtgc tggcggccgt 480
tctgcctggg accccgggaa cctctcctgc cggaagccgg ac 522

```

```

<210> 114
<211> 510
<212> DNA
<213> Homo sapiens

```

```

<400> 114
gttgcaggtc actgtagcgg gacttctttt ggttttcttt ctctttgggg cacctctgga 60
ctcactcccc agcatgaagg cgctgagccc ggtgcgcggc tgctacgagg cgggtgtgctg 120

```

```

cctgtcggaa cgcagtctgg ccatcgcccc gggccgaggg aagggcccgg cagctgagga 180
gccgctgagc ttgctggacg acatgaacca ctgctactcc cgcctgcggg aactgggtacc 240
cggagtcctcg agaggcactc agcttagcca ggtggaaatc ctacagcgcg tcatcgacta 300
cattctcgcac ctgcaggtag tcctggccga gccagcccct ggaccccctg atggcccca 360
ccttcccatc cagacagccg agcccgtcc ggaacttgct atctccaacg acaaaaggag 420
cttttggcac tgactcggcc gtgtcctgac acctccagaa cgcaggtgct ggcgccggtt 480
ctgcctggga ccccggaac ctctcctgcc
510

```

<210> 115

<211> 385

<212> DNA

<213> Homo sapiens

<400> 115

```

aatagtctgt gtccaagaaa ataagaatca cgtcatctag ctgtggacac tgagcaaaaa 60
ggagcagcat gctattaaga tggttgagac acacgagtga acaaagatgg gacaaactgt 120
gcttcgttca agaagtttca tcaagacccc taccgcccc cgctcttcag ctctgtacag 180
taacttttagc tttacataga gctgagataa aaataaagct ttcttacaaa ttacattttt 240
ttccagtga tttacttttgc agtaaaaaata gctgctacat aaatccctcc tgatctctga 300
aaaggagttg catattttcca aaaataatat tcttatttta atcacacaga agaacgtgga 360
gcacaggaag gaaatggctg gctgg
385

```

<210> 116

<211> 645

<212> DNA

<213> Homo sapiens

<400> 116

```

tacggccggg tcttttaag aggccgggaa tacacatgac tcaggtgctc ttttgaaacg 60
actacaaaag tctccatttt gatcaaaacg ttttctccga atgaatggct ccgatgcttt 120
ctctttccca tcttaagtcc ccgctctgtg cctcagaata gtctgtgtcc aagaaaataa 180
gaatcacgtc atctagctgt ggacactgag caaaaaggag cagcatgcta ttaagatgg 240
tgagacacac gagtgaacaa agatgggaca aactgtgctt cgttcaagag gtttcatcaa 300
gacccctacc gcccccgctc cttcagctct gtacagtaac tttagcttta catagagctg 360
agataaaaaat aaagctttct tacaatttac atttttttcc agtgaattac ttttgacgta 420
aaaatagctg ctacataaat ccctcctgat ctctgaaaag gagttgcata tttccaaaaa 480
taatattctt attttaata cacagaagaa cgtggagcac aggaaggaaa tggctggctg 540
gtcagggaga ggtgagctgt cggagaaaca cagtaaaact aaaaaataaa atccattttg 600
tgtataaact gacttaaacg catgcaaaga agtggaanaac atatg
645

```

<210> 117

<211> 500

<212> DNA

<213> Homo sapiens

<400> 117

```

atgtcgaggg aatgcagaaa gagttaagga aggcaggttg tccttctatt caggccactc 60
ttcgttttcc atgtactgca tgctgtttgt ggcactttat cttcaagcca ggatgaagg 120
agactgggca agactcttac gcccacact gcaatttggg cttgttgccg tatccattta 180
tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 240
cattcaggga gctctggttg caatattagt tgctgtatat gtatcggatt tcttcaaaga 300
aagaacttct tttaaagaaa gaaaagagga ggactctcat acaactctgc atgaaacacc 360
aacaactggg aatcactatc cgagcaatca ccagccttga aaggcagcag ggtgccagg 420
tgagggtggc ctgttttcta aagggaagatg attgccacaa ggcaagaaga tgcatctttc 480
ttcctggtgt acaagccttt
500

```

<210> 118

<211> 592

<212> DNA

<213> Homo sapiens

<400> 118

```

taaggaaggc aggttgtcct tctattcagg ccactcttcg ttttccatgt actgcatgct 60
gtttgtggca ctttatcttc aagccaggat gaagggagac tgggcaagac tcttacgccc 120
cacactgcaa tttggctctg ttgccgtatc catttatgtg ggcctttctc gagtttctga 180
ttataaacac cactggagcg atgtgttgac tggactcatt cagggagctc tggttgcaat 240
attagttgct gtatatgtat cggatttctt caaagaaaga acttctttta aagaaagaaa 300
agaggaggac tctcatataa ctctgcatga aacaccaaca actgggaatc actatccgag 360
caatcaccag ccttgaaaag cagcaggggtg cccaggtgag gctggcctgt tttctaaagg 420
aagatgattg ccacaaggca agaggatgca tctttcttcc tgggtgtacaa gcctttaaag 480
acttctgctg ctgctatgcc tcttgatgc acactttgtg tgtacatagt tacctttaac 540
tcagtgggta tctaatagct ctaaactcat taaaaaaact ccaagccttc ca 592

```

<210> 119

<211> 197

<212> DNA

<213> Homo sapiens

<400> 119

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ggcgcgccctt tttttttttt tttttttttt ttttttttgg ggaaaagggg gtcttttttg 60
gggtccccccc ccccttttaa aaaaccccc taaaaaatgc ccccaaaaaa aaaaattttt 120
ttttttgggg ggggggaaaa aaagggggaa aaaaccccc cccccgggg ggggaaaaaa 180
acccccccaa aaccccc

```

<210> 120

<211> 493

<212> DNA

<213> Homo sapiens

<400> 120

```

tttttttttt ttaatggtaa aaactttatt tactatttat aaatacattg caagacaaac 60
ttctcaaaaa tacttttccc cccaaaaagt taaaaaataa aagaaaagct aataggtagg 120
cagaatgtct tgagaccctt ctgttttcaa ggagagctct atgcagcgtg tgtccacacc 180
gaggtctgca gcagggcaga gtctccctga gctgacttt gccagacctt cttgggtttg 240
gcctccggga gagcagccca gtctctgggt cgacgtcctt tctcagtcga tggccacagt 300
tgtatcatat agcatctcta acatttcatc taggattatc tagtatagat cttactatat 360
ttggggctat gttgtatata atgtaacaa gaacatatct tctctgcata tatgtgtgaa 420
ttataaagaa aagcatgaga atgactctaa gtcaacaaa catgggtgaa tctctatgtg 480
ctccagtggt cct

```

<210> 121

<211> 265

<212> DNA

<213> Homo sapiens

<400> 121

```

tggtagcctt gcagtaccgg tccggaattc ccgggtcgac ccacgcgtcc gcttcctggt 60
ttctgttgct aaatgatgat aatgtgccat gatgttttat atatatcatt cagaaaaagt 120
tttttttttt aataacattc tattaacatt attttgcttg ccgctggcat gcctgaggaa 180
tgtatttggc tttgattaca cactaagttt ttgtaataaa tttgactcat taaaaacctt 240
ttttttttaa aaaaaaaaaa aaaaa

```

<210> 122

<211> 186

<212> DNA

<213> Homo sapiens

<400> 122

```

tttctgtttt ctgttgtaaa atgatgataa tgtgccatga tgttttatat atatcattca 60
gaaaaagttt ttttttttaa taacattcta ttaacattat tttgcttgcc gctggcatgc 120
ctgagggaatg tatttggtct tgattacaca ctaagttttt gtaataaatt tgactcatta 180
aaaaac

```

<210> 123

<211> 475
 <212> DNA
 <213> Homo sapiens

<400> 123
 cagcccgtcc gcggcctctc cagccccggg ttcgcgtctc cgactcccc gaccagtc 60
 gcggtgcccc ggcggtgat gccaaatata gccatgaaga aaaaggtgct gctgatggg 120
 aagagcgggt cggggaagac cagcatgagg tcgataatct tcgccaatta cattgctcgc 180
 gacacccggc gcctgggggc caccattgac gtggaacact cccacgtccg attcctagg 240
 aacctggtgc tgaacctgtg ggactgtggc ggtcaggaca ccttcattga aaattacttc 300
 accagccagc gagacaatat cttccgtaac gtggaagttt tgatttacgt gtttgacgtg 360
 gagagccgcg aactggaaaa ggacatgcat tattaccagt cgtgtctgga ggccatcctc 420
 cagaactctc ctgacgccaa aatcttctgc ctggtgcaca aaatggatct ggttc 475

<210> 124
 <211> 122
 <212> DNA
 <213> Homo sapiens

<400> 124
 agaaggggtg ctggagccta ggacgtcgag gctgcagtga gatatgatca caccactgca 60
 ctccagcatg actgagttag accctgtctc aaaaaaaaaa aaaaaaaagt tttttttttt 120
 tc 122

<210> 125
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 125
 ggaggggaag gttggtaggt aagctgtaac agattgctcc agttgcctta aactacgcac 60
 atagctaagt gaccaaactt cttgttttga ttgaaaaag tgcattgttt tcttgccct 120
 ccctttgatg aaacgttacc ctttgac 147

<210> 126
 <211> 607
 <212> DNA
 <213> Homo sapiens

<400> 126
 cagtgaagac ttgcatgttg ttttcaactac tgtacacttg acctgcacat gcgagaaaaa 60
 ggtggaatgt ttaaaacacc ataatacagct cagggtatct gccaatctga aataaaaagt 120
 ggatgggaga gtgtgtcctt cagatcaagg gtactaaaagt ccctttcgct gcagtgagtg 180
 agaggtatgt tgtgtgtgaa tgtacggatg tgtgtttgcg tgcattgttg tgcattgttg 240
 actgtgcatg ttatgtttct ccatgtgggc aaagatttga aatgtaagct tttatttatt 300
 attttagaat gtgacataat gagcagccac actcggggga ggggaagggt ggtaggtaag 360
 ctgtaacaga ttgctccagt tgccttaaac tacgcacata gctaagtgac caaacttctt 420
 gttttgatgtt gaaaaaagtg cattgttttc ttgtccctcc ctttgatgaa acgttaccct 480
 ttgacgggcc ttttgatgtg aacagatgtt ttctaggaca aactataagg actaatttta 540
 aacttcaaac attccacttt tgtaatttgt tttaatttgt tttatgtata gtaagcaca 600
 ctgtaat 607

<210> 127
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 127
 attccaatta gccaggaatg gaaggatgag aagcgggatt tgctgactga aggacaaagt 60
 ttttagcagcc ttgatgaaga agccctggga tcccgacaca ggccagacct ggtccctagc 120
 actccatcac tgtttgaagc tgcttccttg gcaaccacaa tttcatcttc ttccttatac 180
 gtcaatgagc actatccaca cgacaggcct acactctatt caaacagcaa agggttacct 240


```
tccagttcaa catttacctt ggaagagggg accatctact tgaccgctga gcccaacact 300
ctggaagtgc aggatgacaa tgcttctgtg cttgacgtct atttataagt gaaaatgggtg 360
atcacctaag cacatggatg agacgtgagc acagttatgg cagagaagtt tctccgcacc 420
agaattatcc acagcaactt ggctgagccc cactacacac aga 463
```

<210> 128

<211> 592

<212> DNA

<213> Homo sapiens

<400> 128

```
ccaattagcc aggaatggaa ggatgagaag cgggatttgc tgactgaagg acaaagtttt 60
agcagccttg atgaagaagc cctgggatcc cgacacaggc cagacctggt ccctagcact 120
ccatcactgt ttgaagctgc ttccttgga accacaattt catcttcttc cttatacgtc 180
aatgagcact atccacacga caggcctaca ctctattcaa acagcaaagg gttaccttcc 240
agttcaacat ttaccttgga agaggggacc atctacttga ccgctgagcc caacactctg 300
gaagtgcagg atgacaatgc ttctgtgctt gacgtctatt tataagtga aatggtgata 360
acctaaagcac atggatgaga cgtgagcaca gttatggcag agaagtttct ccgcaccaga 420
attatccaca gcaacttggc tgagccccac tacacacaga gaaatcatca acctgactta 480
agagttttca agatgtcaac ttcaggctga tcagcagatg ggatgtgaaa aatactacct 540
tattctatca tttgctgttg cttgtgtaac tgtgaagaac tgcatgaact at 592
```

<210> 129

<211> 251

<212> DNA

<213> Homo sapiens

<400> 129

```
caattagcca ggaatggaag gatgagaagc gggatttgct gactgaagga caaagtttta 60
gcagccttga tgaagaagcc ctgggatccc gacacaggcc agacctggtc cctagcactc 120
catcactgtt tgaagctgct tccttggaac ccacaatttc atcttcttcc ttatagctca 180
atgagcacta tccacacgac aggcctacac tctattcaaa cagcaaaggg ttaccttcca 240
gttcaacatt t 251
```

<210> 130

<211> 229

<212> DNA

<213> Homo sapiens

<400> 130

```
gtagcagaag cctcattcca gaacccatct ggccagagaa gcagcagcat cctgggggat 60
ggccgtgcat ggggtgtaca ctcgctatag gcataggccc ggcattggctg tcgctggacg 120
ccagctgtgc acaccagcc acacctgctg cagcccgctg tagtgtgcgg ctccgggcct 180
gagcattcgc aaagctcgct tctccaggga gcctcctctt ggctttgga 229
```

<210> 131

<211> 316

<212> DNA

<213> Homo sapiens

<400> 131

```
cgccataacc tggtcagaag tgtgcctgtc ggcggggaga gaggcaatat caaggtttta 60
aatctcggag aaatggcttt cgtttgcttg gctatcggtt gcttatatac ctttctgata 120
agcacaacat ttggctgtac ttcattctca gacaccgaga taaaagttaa ccctcctcag 180
gattttgaga tagtggatcc cggatactta ggttatctct atttgcaatg gcaaccccc 240
ctgtctctgg atcattttta ggaatgcaca gtggaatatg aactaaaata ccgaaacatt 300
ggtagtgaat catgga 316
```

<210> 132

<211> 270

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 132
 agtcgccata acctggtcag aagtgtgcct gtcggcnggg agagaggcaa tatcaagggtt 60
 ttaaattctcg gagaaatggc ttctgtttgc ttggctatcg gatgcttata tacctttctg 120
 ataagcacaa catttggtcg tacttcatct tcagacaccg agataaaagt taacctctct 180
 caggattttg agatagtggg tcccggatac ttaggttatc tctatttgca atggcaaccc 240
 ccactgtctc tggatcattt taaggaatgc 270

<210> 133
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 133
 ttacatacgt ttttattact cgggggggac ctgtacgtca ccaatgccca gcttcacggg 60
 ggcattgtagt gtgactcacg gctgaacaca aaatcactgt gaagcctgtg ctacagaagg 120
 atgtccagtc gctgaggcca ggagagagggt gggcaggcct gggctctggca gtggagacgg 180
 tcctccaggg agccgttggg caggaagccg tacaccaggc agtagaagcc gttctgagca 240
 cagtagccag caaagtccac aatgtttggg tgacgaaacc tggacagctg ctccacctcg 300
 gtcaggaagc tctgcttcac tgcagtccac tccaggtcag c 341

<210> 134
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 134
 attatgtgat taatgatttg acagccgttc caatctccac gtctccagaa gagattccac 60
 atgggagttt ctcagactga ttcttgacct ctcaatgaaa gtgttgaaac aggatgggaa 120
 atattttaca cagggggaact gtgtcaatct gacagaagca ctgtcgctct atgaagaaca 180
 gctggggcgc ctgtattgtc ctgtggaatt ttcaaaggag atcgtctgtg tcccttcata 240
 cttggaattg tgggtatatt aactgtttg gaagaaagct aaacctgaa gatcagtagc 300
 ccctaatac atgtgctgca aatagccttc ctgacctcca tatgctgtac atgacatcaa 360
 aatgagtcag gcaattgatt gtgaattcct taaagtttct ctttttttaa taattatttt 420
 taatttaaaa aagcaaatgg aaaatgtata ttttgatgag cttagg 466

<210> 135
 <211> 70
 <212> DNA
 <213> Homo sapiens

<400> 135
 agtttttcctt tttttaataa ttatttttaa tttaaaaaag caaatggaaa atgtatatatt 60
 tgatgagctt 70

<210> 136
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 136
 tttttttttt tttttttcgg ctcagtataa agcttccttt tcttagggac catgcaaaga 60
 ttcttttgatt ctagaagtgc catttcatta ttctgtgac tctgtctga atcatctgcc 120
 aggtaactat cttgattttg tcttagcaat cgacttagca gaccattctt ggagaaagaa 180
 aaatcctgag gtgaaacagg ctccgattta aagtcttcgg acactggtaa ggcagggtgcg 240
 cttctctgca cagcaggagc cataccaag aatggggcac tcttagcatc atggctcaag 300
 tgcacatttg tgtaggaat ttgtaagtca tcacaaggct cagattttat tttcaccatc 360

agtatttggt cacttaaagc tctctctgag tgttcctgag tactttcatc tcttaaggga 420
gttttctctt ttttttctact ct 442

<210> 137
<211> 275
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 244
<223> n = A,T,C or G

<400> 137
agaaaaatac aaaaaatctg cattaaaaat attaatcctg catgctggac atgtatggta 60
ataatttcta ttttgtacca ttttctgttt aacttttagca tgttggtgat catggatcat 120
actcccctgt ttcttgggtg agaagggatc gccagtttgg aaactccggc ggctgcgtgc 180
gggggtttcag tcccactgta ggcttgtaaa taccgccccg ccaaaccgca tagagacgtg 240
gcancactga gggctttgtt gggttatata cgtat 275

<210> 138
<211> 353
<212> DNA
<213> Homo sapiens

<400> 138
taagctcggg attcgggtcg aggaaaaata caaaaaatct gcattaaaaa tattaatcct 60
gcatgctgga catgtatggt aataatttct attttgtacc attttcttgt ttaacttttag 120
catgttggtg atcatggatc atactcccct tgtttctttg ggtgagaagg gatcgcagtt 180
tggaactcc ggcggtgcg tgcgggggtt cagtcaccagc tgtaggcttg taaatacccg 240
ccccgccaaa ccgcatagag aacgtggcag caagctgagg gtctttgttt gggtttatta 300
ttacggtatt tttgtttgta agttaaaaaa aaaaaaaaaa gggggggccc cca 353

<210> 139
<211> 559
<212> DNA
<213> Homo sapiens

<400> 139
gaatttgcc ctcgaggcca agaattcggc actagggcgc agaaggacca gcagaaagat 60
gccgaggcgg aagggtcgtg cggcacgacc ctgctgccga agctgattcc ctccggtgca 120
ggccgggagt ggctggagcg gcgcccgcgc accatccggc cctggagcac ctctgtggac 180
cagcagcgt tctcacggcc ccgcaacctg ggagagctgt gccagcgct cgtacgcaac 240
gtggagtact accagagcaa ctatgtgttc gtgttccttg gcctcatcct gtactgtgtg 300
gtgacgtccc ctatgttgct ggtggctctg gctgtctttt tcggcgctg ttacattctc 360
tatctgcgca ccttgagtc caagcttgtg ctctttggcc gagaggtgag cccagcgcac 420
cagtatgtc tggctggagg catctccttc cccttcttct ggctggctgg tgcgggctcg 480
gccgtcttct ggggtgctgg agccaccctg gtgggtcatcg gctcccacgc tgccttcac 540
cagattgagg ctgtggacg 559

<210> 140
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 444
<223> n = A,T,C or G

<400> 140
tttttttttt tttttttttg acaccataa cagctttatt ttcaaaggcg ggatccctcc 60

```

ccgggcttgt gatgggacgg cgctgtgggc ccgagcagca aagccgtgca ggacagggcat 120
gggcaggggt ggggcagctg gccggggagg ccggcaggtc ccaaaagaca cctcacacgg 180
gttccatctg cagctcctcc ccgtccacag cctcaatctg gtggaaggca gcgtgggagc 240
cgatgaccac cagggtggct ccagcacc ccagcaccgca ccagccagcc 300
agaagaaggg gaaggagatg cctccagcca gagcatactg atgcgtggg ctacacctc 360
ggccaaagag cacaagcttg gactccaagg tgcgcagata gagaatgtaa caggcgccga 420
aaaagaccag ccagagccac cagnacata ggggacgtca ccacacagta caggatgagg 480
cccaggaaca cgaacacata gttgctctgg tagtactcca cggtgcgtac gaggcgctgg 540
cacagctctc ccaggttgcg ggcccgtag aagcgtgct ggtccacgaa ggtgctccag 600
gggccggatg gtcgcgcggc gccgctccag ccactcccgg cctgcacccg gaggaatcag 660
cttcggcagc aaggtcgtgc cggtcagccc ttccgcctcg gcattcttct t 711

```

<210> 141

<211> 468

<212> DNA

<213> Homo sapiens

<400> 141

```

actgcagtc cttcttctct ggcctctttg gaggtctatc caaaatagag gaagcatgcg 60
aaatctacgc cagagcagca aacatgttca aaatggccaa aaactggagt gctgctggaa 120
acgcgttctg ccaggctgca cagctgcacc tgcagctcca gagcaagcac gacgcagcca 180
cctgctttgt ggacgctggc aacgcattca agaaagccga ccccaagag gccattaact 240
gtttgatgag agcaatcgag atctacacag acatgggccg attcacgatt gcggccaagc 300
accacatctc cattgctgag atctatgaga cagagttggt ggacatcgag aaggccattg 360
cccactacga gcagtctgca gactactaca aaggcgagga gtccaacagc tcagccaaca 420
agtgtctgct gaaggtggct ggttacgctg cgctgctgga gcagtatc 468

```

<210> 142

<211> 203

<212> DNA

<213> Homo sapiens

<400> 142

```

cgcaaagtga agaactcgca gtccttcttc tctggcctct ttggaggctc atccaaaata 60
gaggaagcat gcgaaatcta cgccagagca gcaaacatgt tcaaaatggc caaaactgg 120
agtgtctgct gaaacgcgtt ctgccaggct gcacagctgc acctgcagct ccagagcaag 180
cacgacgcag ccacctgctt tgt 203

```

<210> 143

<211> 212

<212> DNA

<213> Homo sapiens

<400> 143

```

tctgcgggga acagaacatg atcggcatga cgcccacggt catcgtctgag cattacctgg 60
ctgaaacgga gcagcgggag aagttcgggc taaagaagcg ggagggggcc tgggagctca 120
tgaagaaggg gtacaccag caactggcct tcatacaacc cagctctgcc tttgcggcct 180
tcgtgaaacg ggcaccagc acctggctga cc 212

```

<210> 144

<211> 226

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 109, 128, 153, 161, 167, 174, 175, 178, 196, 202, 206, 211, 213

<223> n = A,T,C or G

<400> 144

```

gaagcacctc attgtgaccc cctcgggctg cggggaacag aacatgatcg gcatgacgcc 60

```

cacgggtcatc gctgtgcatt acctggatga aacggagcag tgggagaant tcggcctaga 120
gaagcgggag ggggccttgg agctcatcaa ganggggtac ncccagnagc tggnttnag 180
acaaccagc tctgcntttg cnggcnttcg nanaaagggc cccac 226

<210> 145
<211> 97
<212> DNA
<213> Homo sapiens

<400> 145
ctgggctgcg gctgatgcgc atccgttttc ctgccctggg catgtgtctc tgaaaccgta 60
tggcgggagg tgggcaacgg gcactgctaa gggaggc 97

<210> 146
<211> 120
<212> DNA
<213> Homo sapiens

<400> 146
ggcacgagct catctgtttg cggatcagaa cccgagctgt gcttgtggct gcggctgcta 60
actggctgcg cacagggagc tgtcaccatg cctcactcgt acccagccct ttctgctgag 120

<210> 147
<211> 273
<212> DNA
<213> Homo sapiens

<400> 147
ggcgcgccctt tttttttttt ttttttttcc cccctttttt ttggtggggg ggtttttcca 60
aggggttgaa tgggggtttt ttttcccc ttttacccta gaaaaagggg gaggaaaaaa 120
ggaacccccg gggaaaaatt tcctttttt ggaaaatttg ggggaccga aaaaaggggg 180
gggaaccccc cccctttttt ttttcttta aaaaattttt ttgccccaa aaaaaggggg 240
gccccctttc ccccccttct tgggccccg ggg 273

<210> 148
<211> 90
<212> DNA
<213> Homo sapiens

<400> 148
cacttcacgc aaggcacatg tgctgtcctg caggctctgca gggaaccgac ccagagagcc 60
cagcggcagg ccctggaaca cccgcctctg 90

<210> 149
<211> 463
<212> DNA
<213> Homo sapiens

<400> 149
gacttgtccg ggaatccggt gcttcggatc tactacacct cgaggcctgc tctgttcacc 60
ttgtgtgctg ggaatgagct cttctactgc ctccctacc tgttccattt ctctgaggga 120
ccttttagttg gctctgtggg actgttccg atgggcctct gggcactgc ccccatcgcc 180
ttgctgaagt cgtcatcag cgtcatccac ctgatcacg cgcgccgcaa catggctgcc 240
ctggacgcag cagaccgcgc caagaagaag tgacgctgga gccccgggtc ctggctgcc 300
acctgccctg ggagtcttgc tgtgccacac agctccccac cccctgctag gaggtccag 360
tctcacgcct tcctcatgtg ttgttctacc tgctgggatg ggggtcagcc tctctttggt 420
gacgtcacgt tctctgggat cctgaggacc cgggcctcaa atc 463

<210> 150
<211> 693
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 285, 455, 597, 606, 636, 667, 686

<223> n = A,T,C or G

<400> 150

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ggcacgagga gagagagagt cacaagatga tcgacttggt cgggaatccg gtgcttcgga 60
tctactacac ctcgaggcct gctctgttca ccttggtgtg tgggaatgag ctcttctact 120
gcctcctcta cctgttccat ttctctgagg gacctttagt tggctctgtg ggactgttcc 180
ggatgggcct ctgggtcact gccccatcg ccttgctgaa gtcgctcatc agcgtcatcc 240
acctgatcac ggccgcccgc aacatggctg ccctggacgc agcanaccgc gccaaagaaga 300
agtgaacgtg gagccccggg tcctggctgc cacctgccct gggagtcttg ctgtgccaca 360
cagctcccca cccctgcta ggaggtccca gtctcacgcc ttctcatgtg gttgttctac 420
ctgctgggat gggggtcagc ctctctttgg tgacntcacg ttcttctggg atcctgagga 480
ccgggcctca aatcaggag gataccggg agggcccctt catccaagcg gtgcttctgg 540
ggtgccggga ccgggcagtg tcacaccctg cctgctagtc ctgggggtcca gatctangga 600
ccttantgaa ggagtgggtg gaggcagttc tgaagnggat aactcgccca caacaagttg 660
ggacatncag aggaaactca actctnacgt ctt                                     693

```

<210> 151

<211> 300

<212> DNA

<213> Homo sapiens

<400> 151

```

gagagagaga gtcacaagat gatcgacttg tccgggaatc cggtgcttcg gatctactac 60
acctcgaggc ctgctctgtt caccttgtgt gctgggaatg agctcttcta ctgcctctc 120
tacctgttcc atttctctga gggaccttta gttggctctg tgggactgtt ccggatgggc 180
ctctgggtca ctgcccccat cgcttgctg aagtcgctca tcagcgtcat ccacctgatc 240
acggccgccc gcaacatggc tgccctggac gcagcagacc gcgccaagaa gaagtgaacg 300

```

<210> 152

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 37, 41

<223> n = A,T,C or G

<400> 152

```

gacttgctcg ggaatccggt gcttcggatc tactacnct ngaggcctgc tctgttcacc 60
ttgtgtgctg ggaatgagct cttctactgc ctctctacc tgttccattt ctctgaggga 120
cctttagttg gctctgtggg actgttcagg atgggcctct gggtcactgc ccccatcgcc 180
ttgctgaagt cgctcatcag cgtcatccac ctgatcacgg ccgcccga catggctgcc 240
ctggacgcag cagaccgcgc caagaagaag tgacgctgga gccccgggtc ctggctgccc 300

```

<210> 153

<211> 239

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 168, 190, 203, 229

<223> n = A,T,C or G

<400> 153
 gttgccctgc ctctggctcc agaacagaaa gggagcctca cgctggctca cacaaaacag 60
 ctgacactga ctaaggaaact gcagcatttg cacaggggag ggggggtgcct ccttcctaga 120
 ggccctgggg gccaggctga ttggggggca gattgacata ggccccantc atcagatgtc 180
 tgaaattcan cacgggggta acntgggggg ttagggacta tttttaaant aggggtggc 239

<210> 154
 <211> 113
 <212> DNA
 <213> Homo sapiens

<400> 154
 gacacatttg ttacttcgtg agcaagcccc gaggtcggga gccccctgcc gtgttcacag 60
 gtgacacctt gtttgtggct ggctgcggga agttctatga agggactgcg gat 113

<210> 155
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 155
 tttttttttt tttttttttt ttttggcggg aataaatact tggttaaactt ctcttataaa 60
 tatgcattaa aacgtccgat aacacaagcc aagggtctgta aaattaaggt taaatcaaga 120
 ctgaatttcc cgcacggacc agcaggaaaag ccagttacct aaaagagcct aatccccaaa 180
 tccgctgaag gtgcaggggc gcctcagtc cggggcatct tgaactggtc cttctccctg 240
 cgcacggccc gcatggtggt caccgggtcc gtctcacctg cgtgctgctg cacc 294

<210> 156
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 156
 tagccatggc aggacagctc ctggaccagg tctcataatg catgtggcac ttaggtccaa 60
 gctctccaga gggtgaaagc tggagtctgt caatgtccta ctgagacagc acagccaacc 120
 tagctagcaa catttgtttt agtctgaaca atatatactt atagaattca gtcaaagata 180
 cacaatctga aacagcttca tgggtgggac tctaacagta gttgcaatgt tttagaatga 240
 gacttacttc tctgctatct agatctgaac tccttggett ctttacttag ttcaagcccc 300
 agcctaggaa agccagttac ataaaagttg gctcaggagt cttagagctt tacctaaata 360
 gagcccagaa aacggaggat ggggtgggg cgccttcctg gaggtgacac ttgatgggg 419

<210> 157
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 157
 cgtattgctg tcaagccgtg agctagccat ggcaggacag ctctggacc aggtctcata 60
 atgcatgtgg cacttaggtc caagctctcc agaggggtgaa agctggagtc tgtcaatgtc 120
 ctactgagac agcacagcca acctagctag caacatttgt tttagtctga acaatatata 180
 cttatagaat tcagtcaaag atacacaatc tgaaacagct tcatggggtg gactctaaca 240
 gtagttgcaa tgttttagaa tgagacttac ttctctgcta tctagatctg aactccttgg 300
 cttctttact tagttcaagc cccagcctag gaaagccagt tacataaaaag ttggctc 357

<210> 158
 <211> 408
 <212> DNA
 <213> Homo sapiens

<400> 158
 actttgtatc actgcagcgc ttcacacctt catcctgaag atatctggaa cattcgtagt 60
 atctgcagca ccaccaatat ccaatgcaag aacggcaaga tgaactgcca tgaggggtgta 120

```

gtgaagggtca cagattgcag ggacacagga agttccaggg caccctaactg cagatatcgg 180
gccatagcga gcactagacg tgttgtcatt gcctgtgagg gtaaccacaca ggtgcctgtg 240
cactttgacg gttagatgcc accatgtagg gattatcgcg agtgggttgac cttacactta 300
ctccttaaat agcagtgagt aatgcatttg agctgccccca ggctctgtct cctcagctca 360
tttcttactc tttttctcta tataactcat tctattaaat acattgca 408

```

<210> 159

<211> 550

<212> DNA

<213> Homo sapiens

<400> 159

```

acaaggacgc caacccccacc tagatgcaaa gcaggattca aaagaacatc tttgcgtttt 60
ctaccggctc cccatcatcg tactaggag gaagaagcgg gtgagaaaca aaacttcttt 120
ccattgtcct gcccttttct gcggacttgt tctgaggccg aggcacctct aagatactga 180
tggtcttgca gaggacccat tcattgcttc tgcttttgct gctgaccctg ctggggctgg 240
ggctgggtcca gccctcctat ggccaggatg gcattgtacca gcgattcctg cggcaacacg 300
tgaccctga ggagacaggt ggcatgtatc gctactgcaa cttgatgatg caaagacgga 360
agatgacttt gtatcactgc aagcgttca acaccttcat ccatgaagat atctggaaca 420
ttcgtagtat ctgcagcacc accaatatcc aatgcaagaa cggcaagatg aactgccatg 480
agggtgtagt gaaggtcaca gattgcaggg acacaggaag ttccagggca cccaactgca 540
gatatcgggc
550

```

<210> 160

<211> 554

<212> DNA

<213> Homo sapiens

<400> 160

```

ccaacccccac ctagatgcaa agcaggattc aaaagaacat ctttgcgttt tctaccggct 60
ccccatcatc gtactaggga ggaagaagcg ggtgagaaac aaaacttctt tccattgtcc 120
tgcccggttc tgccgacttg ttctgaggcc gaggcacctc taagatactg atggctctgc 180
agaggaccca ttcatgtctt ctgcttttgc tgctgaccct gctggggctg gggctggtcc 240
agccctccta tggccaggat ggcatgtacc agcgattcct gcggcaacac gtgcaccctg 300
aggagacagg tggcagtgat cgctactgca acttgatgat gcaaagacgg aagatgactt 360
tgtatcactg caagcgcttc aacaccttca tccatgaaga tatctggaac attcgtagta 420
tctgcagcac caccaatatc caatgcaaga acggcaagat gaactgccat gagggtgtag 480
tgaaggtcac agattgcagg gacacaggaa gttccagggc acccaactgc agatatcggg 540
ccatagcgag cact
554

```

<210> 161

<211> 313

<212> DNA

<213> Homo sapiens

<400> 161

```

aattacatct tcttttaaagc caaatgggag atgccctttg accccaaga tactcatcag 60
tcaaggggag tacttgagca ggaaaaagtg ggtaatgggt cccatgatga gtttgcata 120
cctgactata ccttacttcc gggacgagga gctgtcctgc accgtggtgg agctgaagta 180
cacaggcaat gccagcgcac tcttcacct cctgatcaa gacaagatgg aggaagtgga 240
agccatgctg ctcccagaga ccctgaagcg gtggagagac tctctggagt tcagagagat 300
aggtgagctc tac
313

```

<210> 162

<211> 519

<212> DNA

<213> Homo sapiens

<400> 162

```

cggcgcgcct tttttttttt tttggcccc cggggcccc ttatttttaa aacccccccc 60
ccccctgggg ggggggcccc gaccttttaa gttttttttt tttcccccg gggaaaaaaa 120
ggggggaaaa aaaaaaaaaa ttcccccccc tttttcccc ccccaaaaaa ggggggggacc 180

```



```

ccccgggggg ggggggggtt cccccggggg gaaaaaaaa acccccgggg gcccccccc 240
aattttttcc cccccccctt tggggggggg gggggggggg gggggggggg gggggcccc 300
cccccccccc ccccccccat tttggggggg tgggttgggg gaaatttttt tttaaaaaaa 360
aaaaaaaaaa atttgggggt ccccccccc ctttttttcc cccccctttt ttccaaaagg 420
ggcccccccc ccccccccc caaaaaaacc ccccccccc ccccaaaaaa acccccccc 480
cgggggggga aaaaaaaggg gggggggggg ggcccccc 519

```

<210> 163

<211> 422

<212> DNA

<213> Homo sapiens

<400> 163

```

aactaaaaac tacagtggaa gaaaggaagt cttcagaagc ctccccact gcgcaaagaa 60
gtaaagatca cagtaaggaa tgcataaacg ctgccccaga ttctccgtcc aaacagcttc 120
cagaccagat ttcatctctc agtggaaatc catcagttga aatagttcac ggtattatgc 180
acctatataa gacaaataag atgacctcct taaaagaaga tgtgcggcgc agtgccatgc 240
tgtgtattct cacagtccct gctgcaatga ccagtcatga ccttatgaag tttgttgccc 300
catttaacga agtaattgaa caaatgaaaa ttatcagaga ctctactccc aaccaatata 360
tggtgctgat aaagtttcgt gcacaggctg atgcggatag tttttatatg acatgcaatg 420
gc 422

```

<210> 164

<211> 626

<212> DNA

<213> Homo sapiens

<400> 164

```

tacggccggg tgcgagctct gcgggaagcg gttcctggat agtttgcggc tgagaatgca 60
cttactggct cattcagcgg gtgccaaagc ctttgtctgt gatcagtgcg gtgcacagtt 120
ttcgaaggag gatgccctgg agacacacag gcagaccat actggcactg acatggccgt 180
cttctgtctg ctgtgtggga agcgcaccca ggcgcagagc gcactgcagc agcacatgga 240
gggtccacgcg ggcgtgcgca gctacatctg cagtgaagtgc aaccgcacct tcccagcca 300
cacggctctc aaacgccacc tgcgtcaca tacaggcgac caccctacg agtgtgagtt 360
ctgtggcagc tgcttccggg atgagagcac actcaagagc cacaacgca tccacacggg 420
tgagaaaacc tacgagtcca atggctgtgg caagaagtcc agcctcaagc atcagctgga 480
gacgcactat aggggtgcaca caggtgagaa gccctttgag tgtaggctct gccaccagcg 540
ctcccgggac tactcgacca tgatcaagca cctgagaacg cacaacggcg cctcgcccta 600
ccagtgcacc atctgcacag agtact 626

```

<210> 165

<211> 515

<212> DNA

<213> Homo sapiens

<400> 165

```

gatagtttgc ggctgagaat gcacttactg gctcattcag cgggtgccaa agcctttgtc 60
tgtgatcagt gcgtgcaca gttttcgaag gaggatgcc tggagacaca caggcagacc 120
catactggca ctgacatggc cgtcttctgt ctgctgtgtg ggaagcgcac ccaggcgcag 180
agcgactgc agcagcacat ggaggtccac gcggcgctgc gcagctacat ctgcagtga 240
tgcaaccgca cttccccag ccacacggct ctcaaagccc acctgcgctc acatacaggc 300
gaccaccct acgagtgtga gttctgtggc agctgcttcc gggatgagag cacactcaag 360
agccacaaac gcatccacac gggtgagaaa ccctacgagt gcaatggctg tggcaagaag 420
ttcagcctca agcatcagct ggagacgcac tatagggtgc acacagggtga gaagcccttt 480
gagtgtaggc tctgccacca gcgtcccg gacta 515

```

<210> 166

<211> 615

<212> DNA

<213> Homo sapiens

<400> 166

```

actgttcaag gtttattggg ggttttagtt ggtataacac ttggatagtt ggttgacattg 60
tttgtatgta gatcttttta cattatatgg taatgtacac tactgatata gttcacaaaa 120
taagatcctt tggaagaatt atgcacaaga catgatattg gatattatata ctggatccca 180
ggatgtgact cactgggaaa aaatgttggg ctaggcatgt tcagtgaagg agccaggaag 240
ttatataaca cacggtaaac atccacctgg ctcaaggggc aaatgcagta cgtacagcat 300
tggcagtggt gcgtcagagg tggcagaact atttcacact aaccagttga agactacaca 360
agattaatac catccagcat caggatatag ctgtggattt taaaaacat tcttatttct 420
aacttcagga gttgatgttt ttcccagtc atcttaaaat attactgctt taatcacaga 480
tcagataaaa aggacaacat gcacaacctc cacctagaat cctgtttag cctagacagt 540
gaaatgatat gacatcagaa gactttaaaa ttgcagctcc ttttgatcc cccaaagtgt 600
atctgcactc ttctt 615

```

<210> 167

<211> 99

<212> DNA

<213> Homo sapiens

<400> 167

```

tttttttttt ccactgttca aggtttattg ggggttttag ttggtataac acttggatag 60
tgggttgcat tgtttgtatg taaatctttt tacattata 99

```

<210> 168

<211> 612

<212> DNA

<213> Homo sapiens

<400> 168

```

tacggccggg acatgaagga gctaggagtg ggaatagctt tgcgaaaaat gggcgcaatg 60
gccaagccag attgtatcat cacttgtgat ggtaaaaaacc tcaccataaa aactgagagc 120
actttgaaaa caacacagtt ttcttgtacc ctgggagaga agtttgaaga aaccacagct 180
gatggcagaa aaactcagac tgtctgcaac ttacagatg gtgcattggg tcagcatcag 240
gagtgggatg ggaaggaaag cacaataaca agaaaattga aagatgggaa attagtgttg 300
gagtgtgtca tgaacaatgt cacctgtact cggatctatg aaaaagtaga ataaaaattc 360
catcatcact ttggacagga gttaattaag agaatgtcca agctcagttc aatgagcaaa 420
tctccatact gtttctttct ttttttttca ttactgtgtt caattatctt taccataaac 480
attttacatg cagctatttc aaagtgtgct ggattaatta ggatcatccc ttggttaaat 540
aaataaatgg gtttgtgcta atatatcttg tatgcattct ttaaacctta caggaaatta 600
gtgatgagtt tt 612

```

<210> 169

<211> 410

<212> DNA

<213> Homo sapiens

<400> 169

```

gaaaacaaca cagttttctt gtaccctggg agagaagttt gaagaaacca cagctgatgg 60
cagaaaaact cagactgtct gcaactttac agatggtgca ttggttcagc atcaggagtg 120
ggatgggaag gaaagcacia taacaagaaa attgaaagat gggaaattag tgggtggagt 180
tgtcatgaac aatgtcacct gtactcggat ctatgaaaaa gtagaataaa aattccatca 240
tcactttgga caggagttaa ttaagagaat gtccaagctc agttcaatga gcaaatctcc 300
atactgtttc tttctttttt ttccattact gtgttcaatt atctttatca taaacatttt 360
acatgcagct atttcaaagt gtgctggatt aattaggatc atccctttgg 410

```

<210> 170

<211> 310

<212> DNA

<213> Homo sapiens

<400> 170

```

gctcgggaat tcgctcgagt gctgctcccc acccatggac aggagatcct ggggtggggc 60
tccctctgat gacccagcc agatgagcga gtggggctca gcgtggccca tgggtgacct 120
cactcagcat tcccatgcct gatgtttacc aagtgtgtg ttggacactg gctttctcca 180

```

```

aacaggattt gcctcctcca cgctccctac acacctgaga tgtaaactgg cagtcagtgt 240
tcactcagga cctaggatta gaaaatggca gagttggtgc tggatccacc ttgcacttct 300
atcaagccct                                     310

```

<210> 171

<211> 257

<212> DNA

<213> Homo sapiens

<400> 171

```

tgctgctccc cagcccatgg acaggagatc ctgggttggg cctccctctg atgaccccag 60
ccagatgagc gagtggggct cagcgtggcc catggtgcct gtcactcagc attcccatgc 120
ctgatgttta ccaagtgcctg tgttggacac tgactttctc caaacaggat ttgcctcctc 180
cacgtccctt acacacctga gatgtaaact ggcagtcagt gttcactcag gacctaggat 240
tagaaaatgg cagagtt                                     257

```

<210> 172

<211> 593

<212> DNA

<213> Homo sapiens

<400> 172

```

tgaagaacgg tgccacttac gaagccaaaa tcaaggatgt ggatgagaaa gcagacatcg 60
cactcatcaa aattgaccac cagggcaagc tgctgtcctt gctgcttggc cgctcctcag 120
agctgcgggc gggagagttc gtggtcgcca tcggaagccc gttttccctt caaaacacag 180
tcaccaccgg gatcgtgagc accaccagc gaggcggcaa agagctgggg ctccgcaact 240
cagacatgga ctacatccag accgacgcca tcatcaacta tggaaactcg ggaggcccgt 300
tagtaaacct ggacggtgaa gtgattggaa ttaacacttt gaaagtgaca gctggaatct 360
cctttgcaat cccatctgat aagattaaaa agttcctcac ggagtcccat gaccgacagg 420
ccaaaggaaa agccatcacc aagaagaagt atattggtat ccgaatgatg tctactcacgt 480
ccagcaaagc caaagagctg aaggaccggc accgggactt ccagacgtg atctcaggag 540
cgtatataat tgaagtaatt cctgataccc cagcagaagc tgggtgtctc aag                                     593

```

<210> 173

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 106, 113, 125, 137

<223> n = A,T,C or G

<400> 173

```

gggtcaaaagt tgagctgaag aacggtgcca cttacgaagc caaaatcaag gatgtggatg 60
agaaagcaga catcgactc atcaaaattg accaccaggg caagcngcct gtnctgctgc 120
ttggncgctc ctcaganctg cggccgggag agttcgtggt cgccatcgga agccggtttt 180
cccttcaaaa cacagtcacc accgggatcg tgagcaccac ccagcgaggc ggcaaagagc 240
tggggctccg caactcagac atggactaca tccagaccga cgccatcatc aactatggaa 300
actc                                     304

```

<210> 174

<211> 258

<212> DNA

<213> Homo sapiens

<400> 174

```

ggtcagaaga gttgtgcacg cagattagca ggccaaggtc tgagccacag cagcattttt 60
atttcagatt ttgataactg tttatatgtg ttgaaaacca aaatgacatc tttttaaagc 120
ttatccataa aaaaaaatag atgtctttta tagtggaata acacatgggg aaaaaaatca 180
tctattttga tgcagcattt gataatgata aaacacctca cacctcactc tttatagtgc 240
acaaaatgaa tgaggtct                                     258

```

<210> 175
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 175
 aagtagccgc tccgagtgga ggcgactggg ggctgaagag cgcgccgcc tctcgtccca 60
 ctttccaggt gtgtgatcct gtaaaattaa atcttccaag atgatctggg atatattaat 120
 tataggaatt ctgcttcccc agtctttggc tcatccaggc tttttactt caattgggtca 180
 gatgactgat ttgatccata ctgagaaaga tctggtgact tctctgaaag attatattaa 240
 ggcagaagag gacaagttag aacaaataaa aaaatgggca gagaagttag atcggctaac 300
 tagtacagcg acaaaagatc cagaaggatt tgttgggcat ccagtaaag cattcaaatt 360
 aatgaaacgt ctgaatactg agtggagtga gttggagaat ctggtcctta agggatatgtc 420
 agatggcctt atctctaacc ta 442

<210> 176
 <211> 611
 <212> DNA
 <213> Homo sapiens

<400> 176
 gggctgaggt aggaagtagc cgctccgagt ggaggcgact gggggctgaa gagcgcgccg 60
 ccctctcgtc ccactttcca ggtgtgtgat cctgtaaaat taaatcttcc aagatgatct 120
 ggtatatatt aattatagga attctgcttc ccagtcctt ggctcatcca ggctttttta 180
 cttcaattgg tcagatgact gatttgatcc atactgagaa agatctgggt acttctctga 240
 aagattatat taaggcagaa gaggacaagt tagaacaat aaaaaaatgg gcagagaagt 300
 tagatcggct aactagtaca gcgacaaaag atccagaagg atttgttggg catccagtaa 360
 atgcattcaa ataatgaaa cgtctgaata ctgagtggag tgagttggag aatctgggtcc 420
 ttaagggtat gtcagatggc tttatctcta acctaacct tcaagagacag tactttctta 480
 atgatgaaga tcaggttggg gcagccaaag ctctgttacg tctccaggat acctacaatt 540
 tggatacaga taccatctca aagggtaatc ttccaggagt gaaacacaaa tcttttctac 600
 ggctgaggac t 611

<210> 177
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 177
 ttacaaactc ctgaaccata atattctcgt ctccacagac acatactcca taatttataaa 60
 ccaaagtctt gtgagaaagc ttgctcatca tacttgctgc ttcaaagaaa gactctgaat 120
 agtttctgtg tgctttatoc agaactttta aaagaacttc tgtttcatgc agttgaccgt 180
 agtctcctac ttctcttcgt acgcctttta aaatctttgt aaaagtgcct tggccaaggc 240
 tttcattaaa tatcaaatct tcatttctga ttttgtgaaa caccatttgg ttcatatgag 300
 taggcctctg taatgttggg gaggttggta catcagaaac accattcgtt ctgaagacta 360
 gaaggtttga tttatctttt cggctttggg ggacagcatt tagtacacgg gaaaat 416

<210> 178
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 178
 gggctttttt tttttgcaaa gttccaaatt tatgggtcgg gaaataaatc caaattttctc 60
 attaaaaaac tcctttggaa aaacttgggc ccaaaagttt cccatccgaa ctcagccttt 120
 tttgccccga tccccgactt ttttactcaa ggcccgggaa ggc 163

<210> 179
 <211> 285
 <212> DNA
 <213> Homo sapiens

<400> 179
aaagttacaa atttattggt ctggaataaa atacaaatat ctcattaaga aactcctctg 60
gaaagacttg tgcacaatag tttcccatcc gtactcagcc tctcttgccc cgatccccga 120
cttttctact caaggccagg gaaaggcctc caagggtgatg ggccggcagg aacgagtcac 180
tgcctctcac gccacctgga aggctggact acttcctcct cccaactgcg ggggtcccaga 240
aatcctcggg tcccagtggc tgacttacaa tattcaattc actct 285

<210> 180
<211> 458
<212> DNA
<213> Homo sapiens

<400> 180
tcgagccgcc gccgcccctg tacaacaaca acaacaactg cgaggaaaat gagcagtctc 60
tgccccgcc gcccggcctc aacagttcct ggggtggagct acccatgaac agcagcaatg 120
gcaatgataa tggcaatggg aaaaatgggg ggctggaaca cgtaccatcc tcctcctcca 180
tccacaatgg agacatggag aagattcctt tggatgcaca acatgaatca ggacagagta 240
gttcagagg cagttctcac tgtgacagcc cttcgccaca agaagatggg cagatcatgt 300
ttgatgtgga aatgcacacc agcagggacc atagctctca gtcagaagaa gaagtgtgag 360
aaggagagaa ggaagtcgag gctttgaaga aaagtgcgga ctgggtatca gactggtcca 420
gtagaccga aaacattcca cccaaggagt tccacttc 458

<210> 181
<211> 329
<212> DNA
<213> Homo sapiens

<400> 181
tttttttttt tttttttttt tttcttttta ataactatca actcaaaactt agggaaactt 60
gcctttgtct tgggggaaaa aaacaactag acaataaagc ttcttttaca tcatttgcta 120
acctgatctc gttttaagag agagatggta gttatgttgc aagagtaaaa tttataccat 180
gaatgataca ggtctagtct ggtggcacta attagagata atagcattgc tgacaaaatt 240
ataatctgct ggtggcattt gcggaaaaga ggcccttgca aatttctaaa caacagtaaa 300
ctctgttagg aaattctaaa atgtcttca 329

<210> 182
<211> 527
<212> DNA
<213> Homo sapiens

<400> 182
atacatgtaa cttcattatt ttaaaaaatat ttttagaact ccaatactca ccctgttatg 60
tcttgctagt ttaaattttg ctaattaact gaaacatgct taccagattc acactgttcc 120
agtgtctata aaagaaacac tttgaagtct ataaaaaata aaataattat aaatgtcatt 180
gtacatagca tgtttatata tgcaaaaaac ctaatagcta attaatctgg aatatgcaac 240
attgtcctta attgatgcaa ataacacaaa tgctgcaaag aaatctacta tatcccttaa 300
tgaaatacat cattcttcat atatttctcc ttcagtccat tcccttaggc aatttttaat 360
ttttaaaaat tattatcagg ggagaaaaat tggcaacgct attatatgta agggaaatat 420
atacaaaaag aaaattaatc atagtcacct gactaagaaa ttctgactgc tagttgccat 480
aaataactca atggaaatat tcctatggga taatgtatct taagtga 527

<210> 183
<211> 530
<212> DNA
<213> Homo sapiens

<400> 183
atacatatcat gtaacttcat tatttttaaaa atatttttag aactccaata ctcaccctgt 60
tatgtcttgc taattttaa tttgctaatt aactgaaaca tgcttaccag attcacactg 120
ttccagtgtc tataaaagaa acactttgaa gtctataaaa aataaaataa ttataaatat 180
cattgtacat agcatgttta tatctgcaaa aaacctaata gctaattaat ctggaatatg 240

```

caacattgtc cttaattgat gcaaataaca caaatgctca aagaaatcta ctatatccct 300
taatgaaata catcattctt catatatattc tccttcagtc cattccctta ggcaattttt 360
aatttttaaa aattattatc aggggagaaa aattggcaaa actattatat gtaagggaaa 420
tatatacaaa aagaaaatta atcatagtc cctgactaag aaattctgac tgctagttgc 480
cataaataac tcaatggaaa ttttcctatg ggataatgta ttttaagtga 530

```

<210> 184

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 98, 141, 162, 213

<223> n = A,T,C or G

<400> 184

```

tatacatata tgtaacttca ttatttttaa aatattttta gaactccaat actcaccctg 60
ttatgtcttg ctaattttaa ttttgctaata taactganac atgcttacca gattcacact 120
gttcagtggt ctataaaaga nacactttga agtctataaa anataaaata attataaata 180
tcattgtaca tagcatgttt atatctgcaa aanacctaata agctaattaa tctggaatat 240
gcaacattgt cct 253

```

<210> 185

<211> 421

<212> DNA

<213> Homo sapiens

<400> 185

```

ccgttgctgt cgatcccagc tccttgggag gctgaggcgg gagaattgcg ggaaggcggg 60
gacggagggt gcagtgcgac gagatcgcac tgctgtaccc agcctgggac acagtgcagg 120
actccatctc aaaaaaaaaa gaaaagaaaa agcctgttta atgcacagggt gtgagtggat 180
tgcttatggc tatgagatag gttgatctcg cccttaccac ggggtctggt gtatgctgtg 240
ctttcctcag cagtatggct ctgacatctc ttaaatgtcc caacttcagc tgttgggaga 300
tgggtgatatt ttcaacccta cttcctaaac atctgtctgg gggttcctta gtcttgaatg 360
tcttatgctc aattatttgg tgttgagcct ctcttcaca agagctcctc catgtttgga 420
t 421

```

<210> 186

<211> 377

<212> DNA

<213> Homo sapiens

<400> 186

```

cagctccttg ggaggctgag gcgggagaaat tgcttgaacc cggggacgga ggttgcagtg 60
agccgagatc gcaactgctgt acccagcctg ggccacagtg caagactcca tctcaaaaaa 120
aaaagaaaag aaaaagcctg tttaatgcac aggtgtgagt ggattgctta tggctatgag 180
ataggttgat ctgcgcccta ccccggggtc tgggtgatgc tgtgctttcc tcagcagtat 240
ggctctgaca tctcttagat gtcccaactt cagctgttgg gagatgggtga tattttcaac 300
cctacttcct aaacatctgt ctgggggtcc tttagtcttg aatgtcttat gctcaattat 360
ttggtgttga gcctctc 377

```

<210> 187

<211> 243

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 228

<223> n = A,T,C or G

<400> 187
gagggtattcc acctcctacc ggaatataat taaagggaga aatacactgt atgaagtata 60
tggtgatact atgacatggt gccaacacct tgagaagcat tatttgtttc taataaaaagt 120
aatggccttg tcaatatatt ggtgggttta aaactttgct gcttttttac ataaagcctg 180
tgcctttcct agaaagttaa gatgtaaatg tattctcaca tgtaaatntg aaagttcagg 240
ggt 243

<210> 188
<211> 544
<212> DNA
<213> Homo sapiens

<400> 188
tattccacct cctaccggaa tataattaaa gggagaaata cactgtatga agtatatggt 60
gatactatga catgttgcca acaccttgag aagcattatt tgtttctaataaaaagt 120
gctttgtcaa tatattggtg ggtttaaaac tttgctgctt ttttacataa agcctgtgcc 180
tttcctagaa agttaagatg taaatgtatt ctacacatgta aatttgaaag ttcaggggtc 240
tattatgaaa tgatacacat ttttaaataga accataattt ttttactaa gctgtttgcc 300
ttccaaagtg tttcacacct aagccttaac atgtatcttc attcagaaaa cagttatatt 360
gtcataccat agtaggaaga aaaaccttta tttggaatat aactactgt aagtttgtac 420
agatcatata cctaccacct gtctttgctt aaagagcctt gattacataa atatgtagga 480
aaaaacatat tgagttcaaa atttatatct aacattggtt atgttatgat ttttttttaa 540
ttgc 544

<210> 189
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 210
<223> n = A,T,C or G

<400> 189
cacaaaaggt atgatcagca acttgcttgg gaaaggagcc gtggaccagc tgacacggct 60
ggtgctggtg aatgccctct acttcaacgg ccagtggaag actcccttcc ccgactccag 120
caccaccgc cgcctcttcc acaaatcaga cggcagcact gtctctgtgc ccatgatggc 180
tcagaccaac aagttcaact atactgagtn caccacgccc gatggccatt atacgacatc 240
ctgg 244

<210> 190
<211> 209
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 140
<223> n = A,T,C or G

<400> 190
gaacactgtt gctcttggtg gacgggcccc gaggaattca gagttaaac ttgagtgcct 60
gcgtccgtga gaattcagca tggaaatgtc ctactatttc ctgggatttc tgctcctggc 120
tgcaagattg ccacttgatn ccgccaacg atttcatgat gtgctgggca atgaaagacc 180
ttctgcttac atgagggagc acaatcaat 209

<210> 191
<211> 254
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> 85, 100, 143, 155, 182, 203, 229, 245, 254

<223> n = A,T,C or G

<400> 191

```
ctcccaacca agctctcttg aggatcttga aggaaactga attcaaaaag atcaaagtcc 60
tgggctccgg tgcgttcggc acgngtata agggactctn gatcccagaa ggtgagaaag 120
ttaaatttcc cgtcgctatc aangaattaa gagangcaac atctccgaaa gccacaagg 180
anactctcga tgaagcctac gtnatggcca gcgtggacaa ccccccacng tgccgcctgc 240
tgggnatctg tctn 254
```

<210> 192

<211> 484

<212> DNA

<213> Homo sapiens

<400> 192

```
tttttttttt tttttttttc aaatatacct ctttgaaaga taaatttctg ctcaaaggga 60
caatattctt gctggatgcg ttcctgtaaa tgcttcacag tttgaagaca aagggaatgca 120
acttcccaaa atgtgcccgga ggtggaagta ctctctggct agtcggtgta aacgttgcaa 180
aaccagtctg tgggtctaag agctaattgcg ggcattggctg ttgggatgga ggacctgctg 240
tggtctggtc ctgggtatcg aaagagtctg gatttttagg gctcactacta tcctccgtgg 300
tcatactcca ataaattcac tgctttgtgg cgcgaccctt aggtattctg cattttcagc 360
tgtggagccc ttaaagatgc catttggctt ggcttccttg ggaaagaagt cctgctggta 420
gtcagggttg tccaggctaa tttggtggct gcctttcttg gccagtgagg cagggtctgc 480
gaat 484
```

<210> 193

<211> 660

<212> DNA

<213> Homo sapiens

<400> 193

```
tttaatcata tccaggagtt tgcaagaaac aggtgcttaa cactaattca cctcctgaac 60
aagaaaaatg ggctgtgacc ggaactgtgg gctcatcgct ggggctgtca ttggtgctgt 120
cctggctgtg tttggaggta ttctaattgc agttggagac ctgcttatcc agaagacaat 180
taaaaagcaa gttgtcctcg aagaaggtag aattgctttt aaaaattggg ttaaaacagg 240
cacagaagtt tacagacagt tttggatctt tgatgtgcaa aatccacagg aagtgatgat 300
gaacagcagc aacattcaag ttaagcaaaag aggtccttat acgtacagag ttcgttttct 360
agccaaggaa aatgtaaccc aggaagctga ggacaacaca gtctctttcc tgcagcccaa 420
tggtgccaac ttcgaacctt cactatcagt tggaacagag gctgacaact tcacagttct 480
caatctggct gtggcagctg catcccatat ctatcaaaat caatttgctt aaatgatcct 540
caattcactt attaacaagt caaaatcttc tatgttccaa gtcagaactt tgagagaact 600
gttatggggc tataggagtc catttttgag tttggttccg taccctgtta ctaccacagt 660
```

<210> 194

<211> 277

<212> DNA

<213> Homo sapiens

<400> 194

```
ctttaatcat atccaggagt ttgcaagaaa cagggtgctta acactaattc acctcctgaa 60
caagaaaaat gggctgtgac cggaactgtg ggctcatcgc tggggctgtc attggtgctg 120
tcctggctgt gtttggagggt attctaattgc cagttggaga cctgcttatc cagaagacaa 180
ttaaaaagca agttgtcctc gaagaaggta caattgcttt taaaaattgg gttaaaacag 240
gcacagaagt ttacagacag ttttggatct ttgatgt 277
```

<210> 195

<211> 457

<212> DNA

<213> Homo sapiens

<400> 195

```

gactgggttt ggggtgcagac gttgttgctt gggcgcttct ccgctgcgtg taggtgaagg 60
gggcttcctg accgagacat ggatttaggt gctattacaa aatactcagc attacacgcc 120
aagcccaatg gactgatcct tcaatacggg actgctggat ttcgaacgaa ggcagaacat 180
cttgatcatg tcatgtttcg catgggatta ttagctgtcc tgaggtcaaa acagacaaaa 240
tccactatag gagtcatggt aacagcgtcc cacaatcctg aggaagacaa tgggtgtaaa 300
ttggttgatc ctttgggtga aatgttggca ccacctggg aggaacatgc cacctgttta 360
gcaaagtctg aggaacaaga tatgcagaga gtgcttattg acatcagcga gaaagaagct 420
gtgaatctgc aacaagatgc cttgtagtt attggtta 457

```

<210> 196

<211> 361

<212> DNA

<213> Homo sapiens

<400> 196

```

tttttttttt tttttttttt tttgggcagg agaccatgtt actttattca tttgtttaac 60
tttaaccatg ttcaataaac ttttcacctg tttggtagt tccacaaaag ccttagagag 120
tttctggtag taaccttcta tagttgcctt tccatctcgg ccaccctgtg ttcgacaata 180
caccatgtag tgcagctggg gtgtgtgtaa caagccataa tcatggaatt gacctcctag 240
aacagtcaca ccatctatta cagattgtga aagtttctca ctgctgggcc tggatatctt 300
accaataact acaaaggcat cttgttgcag attcacagct tctttctcgc tgatgtcaat 360
a 361

```

<210> 197

<211> 551

<212> DNA

<213> Homo sapiens

<400> 197

```

gagccgagct gatttgatcg aggagcgcgg ttaccggacg ggctgggtct atggtcgcctc 60
cgcgggccgc tccgccggct ggtgcttttt tatcagggca agctgtgttc catggcaggg 120
aacttttggc agatctccca ctatttgcaa tggatttttg ataaacaaga tctgttgaag 180
gagcgccaaa aggatttaaa gtttctctca gaggaagaat attggaagtt acaaatattt 240
tttacaatg ttatccaagc attaggtgaa catcttaaat taagacaaca agttattgcc 300
actgctacgg tatatttcaa gagattctat gccagggtatt ctctgaaaag tatagatcct 360
gtattaatgg ctctacatg tgtgtttttg gcatccaaag tagagggaatt tggagtagtt 420
tcaaatacaa gattgattgc tgctgtact tctgtattaa aaactagatt ttcatatgcc 480
tttccaaaagg aatttcctta taggatgaat catatattag aatgtgaatt ctatctgtta 540
gaactaatgg a 551

```

<210> 198

<211> 637

<212> DNA

<213> Homo sapiens

<400> 198

```

tacggccggg agtcgagccg agctgatttg atcgaggagc gcggttaccg gacgggctgg 60
gtctatggtc gctccgcggg ccgctccgcc ggctgggtgct tttttatcag ggcaagctgt 120
gttccatggc agggaaactt tggcagagct ccactattt gcaatggatt ttggataaac 180
aagatctgtt gaaggagcgc caaaaggatt taaagtttct ctgaggagaa gaatattgga 240
agtttcaaat attttttaca aatgttatcc aagcattagg tgaacatctt aaattaagac 300
aacaagttat tgccactgct acggtatatt tcaagagatt ctatgccagg tattctctga 360
aaagtataga tctgtatta atggctccta catgtgtgtt tttggcatcc aaagtagagg 420
aatttgaggt agtttcaa atacaagattga ttgctgctgc tacttctgta ttaaaaacta 480
gattttcata tgcctttcca aaggaatttc cttataggat gaatcatata ttagaatgtg 540
aattctatct gttagaacta atggattgtt gcttgatagt gtatcatcct tatagacctt 600
tgctccagta tgtgcaggac atgggccaa gaaacat 637

```

<210> 199

<211> 130
 <212> DNA
 <213> Homo sapiens

<400> 199
 tagaaagcct ccacctggag tacaatgccc tcaaggtcct tcacaatggc accctggctg 60
 agttgcaagg tctacccac attagggttt tcctggacaa caatccctgg gtctgcgact 120
 gccacatggc 130

<210> 200
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 29, 100, 297, 298, 353, 357
 <223> n = A,T,C or G

<400> 200
 gtgctgtttg accaatgggc atgtggccna gattggggac ttcgggctgg ctaggggacat 60
 catgaatgac tccaactaca ttgtcaaggc caatgccgcn ctgcctgtga agtggatggc 120
 cccagagagc atctttgact gtgtctacac gggttcagagc gacgtctggg cctatggcat 180
 cctcctctgg gagatcttct cacttgggct gaatccctac cctggcatcc tggatgaacag 240
 caagttctat aaactgggga aggatggata ccaaatggcc cagcctgcat ttgcccnaa 300
 gaatatatac agcatcatgc aggcctgctg ggcttgggag cccaccaca ganccanctt 360
 ccagcagatc tg 372

<210> 201
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 10, 11, 78, 112, 130, 150, 231, 457
 <223> n = A,T,C or G

<400> 201
 gancacctgn nacaaggagg atggacggcc cctggagctc cgggacctgc ttcacttctc 60
 cagccaagta gcccaggat ggccttcctc gcttccaaga attgcatcca cngggacgtg 120
 gcagcgcgtn acgtgctgtt gaccaatggn catgtggcca agattgggga cttcgggctg 180
 gctagggaca tcatgaatga ctccaactac attgtcaagg gcaatgccgc nctgcctgtg 240
 aagtggatgg ccccagagag catctttgac tgtgtctaca cgggtcagag cgacgtctgg 300
 tcctatggca tcctcctctg ggagatcttc tcacttgggc tgaatcccta ccctggcatc 360
 ctggatgaaca gcaagtctta taaactgggt gaaaggatgg ataccaaag gccagcctg 420
 ctttttggcc ccaaagaata tatacaagca tccatgnagg cccttctggg ccttggag 478

<210> 202
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 202
 gcgagcaagg ggatatcgcc cagcccttgc tgcagcccaa caactatcag ttctgctgag 60
 gagttgacga cagggagtac cactctcccc tcccacaaac ttcaactcct ccatggatgg 120
 ggcgacacgg ggagaacata caaactctgc cttoggtcat ttactcaac agctcggccc 180
 agctctgaaa cttgggaagg tgagggatcc aggggagg 218

<210> 203
 <211> 556
 <212> DNA

<213> Homo sapiens

<400> 203

```

taagctcggg attcggctcg aggcgagcaa ggggatatcg cccagccctt gctgcagccc 60
aacaactatc agttctgctg agggagttgac gacaggaggt accactctcc cctcccacaa 120
acttcaactc ctccatggat ggggacgacac ggggagaaca tacaaactct gccttcggtc 180
atttcaactc acagctcggc ccagctctga aacttgggaa ggtgagggat tcaggggagg 240
tcagaggatc ccacttcctg agcatgggcc atcactgccg gtcaggggct gggggctgag 300
ccctcaccac cccctccctt actgtttctc tgggtgtggc ctctgtttt ctatgccaac 360
tagtagaacc ttctttccta atccccttat ctccatggaa atggactgac tttatgccta 420
tgaagtcccc aggagctaca ctgatactga gaaaaccagg ctctttgggg cttagacagac 480
tggcagagag tgagatctcc ctctctgaga ggagcagcag atgctcacag accacactca 540
gctcaggccc cttgga                                     556

```

<210> 204

<211> 319

<212> DNA

<213> Homo sapiens

<400> 204

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tccttattta tttaacttca cccgagttcc tctgggtttc taagcagtta tgggtgatgac 60
ttagcgtcaa gacatttgct gaactcagca cattcgggac caatatatag tgggtacatc 120
aagtccatct gacaaaatgg ggcagaagag aaaggactca gtgtgtgatc cggtttcttt 180
ttgctcgccc ctgttttttg tagaatctct tcatgcttga catacctacc agtattatc 240
ccgacgacac atatacatat gagaatatac cttattttatt tttgtgtagg tgtctgcctt 300
cacaaatgtc atgtctact                                     319

```

<210> 205

<211> 456

<212> DNA

<213> Homo sapiens

<400> 205

```

attccgttgc tgtcgagggt cactaccagt acaagagcat ccctgtggag gacaaccaca 60
aggcagacat cagctcctgg ttcaacgagg ccattgactt catagactcc atcaagaatg 120
ctggagggaag ggtgtttgtc cactgccagg caggcatttc ccggtcagcc accatctgcc 180
tggcttacct tatgaggact aatcgagtca agctggacga ggcctttgag tttgtgaagc 240
agaggcgaag catcatctct cccaacttca gcttcatggg ccagctgctg cagtttgagt 300
cccaggtgct ggctccgcac tgttcggcag aggctgggag ccccgccatg gctgtgctcg 360
accgaggcac ctccaccacc accgtgttca acttccccgt ctccatccct gtccactcca 420
cgaacagtgc gctgagctac cttcagagcc ccatta                                     456

```

<210> 206

<211> 533

<212> DNA

<213> Homo sapiens

<400> 206

```

agtttttaaa taatgaatat tatttaatac cacaacagaa ttatcccaa tttccaataa 60
gtcctatcat tgaaaattca aatataagtg aagaaaaaat tagtagatca acaatctaaa 120
caaateccctc ggttctaaga tacaatggat tcccatact ggaaggactc tgaggcttta 180
ttcccccaact atgcatatct tatcatttta ttattataca cacatccatc cttaaactata 240
ctaaagccct tttcccatgc atggatggaa atggaagatt tttttttaac ttgttctaaa 300
agtcttaata tgggctgttg ccatgaaggc ttgcagaatt gagtccattt tctagctgcc 360
tttattcaca tagtggacgg ggtacctaaa agtactgggg ttgactcaga gagtcgctgt 420
cattctgtca ttgctgctac tctaacactg agcaacactc tcccagtggc agatcccctg 480
tatcattcca agaggagcat tcatcccttt gctctaataa tcaggaatga tgc                                     533

```

<210> 207

<211> 246

<212> DNA

<213> Homo sapiens

<400> 207
aatgcactaa ctcaataacca agatgagttt ttaaataatg aatattattt aataccacaa 60
cagaattatc cccaatttcc aataagtcct atcattgaaa attcaaatat aagtgaagaa 120
aaaattagta gatcaacaat ctaaacaaat ccctcgggtc taagatacaa tggattcccc 180
atactggaag gactctgagg ctttattccc ccactatgca tatcttatca ttttattatt 240
atacac 246

<210> 208
<211> 407
<212> DNA
<213> Homo sapiens

<400> 208
ggccgccttt tttttttttt tttttttttt ttttttttgg gcaaaaagg gctttttttt 60
ttttccccc cctttttttt aacccttccc ctaatatctc cccccaaaa aaaaattttt 120
tttttttggg ggggggaaaa aaaaggaaaa aaaaaccccc cccccgggg ggggaaaaaa 180
accccccaaa aacccccctt ttgggggggt cccccccat gggggttccc cccccaattt 240
ttttccccc cccaaaaaaa tttttaaccc ccccccaagg ggggtgaaaa ccttaaaaaa 300
aaccccccg aaaaacaaaa accccttttt taaaaaaaa aaaaaaattt ttggggggca 360
aaaccccccc cccccaaaa accccccccc ccccccttaa aaaaaa 407

<210> 209
<211> 359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 53, 121, 123, 128, 133, 142, 150, 174, 179, 183, 186,
196, 200, 201, 204, 207, 212, 215, 218, 224, 229, 230, 231,
243, 244, 249, 260, 261, 267, 268, 270, 273, 279, 289, 291,
295, 301, 303, 305, 312, 315, 337, 345, 357
<223> n = A,T,C or G

<400> 209
ncggggactg cgcgccggtg cagagccggg cgtgggagag aacgaacggg ctncctgcgg 60
ctgagagcgt cgagtgtcac catgggtatc acgcttgag cttcctaaag gacttcctgg 120
ncngggcntc gcncctgccc tntccaagan ccggtcggc cccaatcgag aggncaaaanc 180
tgntgntgaa ggtgcnagan nccnagnaac angtnaantc ttangaagnn ntacaaagg 240
gtnnattant tttttggtan nattccnnan gancaaggnt ttcctttcnt nttgnagggt 300
nancntggca angtnattcc ttaatttccc aaccaangtt ttaantttgg ctttaangg 359

<210> 210
<211> 394
<212> DNA
<213> Homo sapiens

<400> 210
ttttttttt gcattaagtg gtcttttatt atgtttcaca ttcagttatt atcaattctt 60
cagttaattg tacaagtatg ataaattatt ttctatttgc tgtgggaatt taaatgtaaa 120
ataaatacaa aatacatgtg tggtttaatg aacactcaat gaagcatctc ttctgaggta 180
ttcctttcag tctggtttta tcccaggatc tttttacttc ccctaggaat agtctattaa 240
accacacaaat ggaatctgtga acttgtatga caagttcact gtaaatctgt gaacttgtgt 300
tttaattaca ttagacatat tttttgatct catcatacaa caccaatata aaaggcaccg 360
cccatgcctc tcaggcacat tgggaccggg cacc 394

<210> 211
<211> 292
<212> DNA
<213> Homo sapiens

<400> 211
 gggagcccac cagcaagaat gagttggagc aatcttttca tgtgacctcc ttaacagata 60
 ttactgaag gaatctaggt tgtattttca gtggacaatg ggaataaagc atttctaaag 120
 caccgactgg agaggaaggc aacagagaca aggagagaag ccgagagaca tgtctgcgtg 180
 ctgccacgca tttgagcgat tgctctgtga agagttgtac actgaacact ttcaggggag 240
 gctgtttacc caggcaatgt cctcaaacaa gcctgtgccg ggggtgcctg ga 292

<210> 212
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 212
 aattccggtt ctgtcgtctgc gcccaggtaa tttgagcaaa ggccacagtg aactccggcg 60
 tggctgagga aggaggaggc acccacaggc tgctgggagg agagcataag gctcaaaatg 120
 gaaaatcata aatccaataa taaggaaaac ataacaattg ttgatatac cagaaaaatt 180
 aaccagcttc cagaagcaga aaggaatcta cttgaaaatg gatcggttta tgttggatta 240
 aatgctgctc tttgtggcct catagcaaac agtctttttc gacgcatctt gaatgtgaca 300
 aaggctcgca tagctgctgg cttaccaatg gcagggatac cttttcttac aacagactta 360
 acttacagat gttttgtaag ttttcctttg aatacagggt atttggattg tgaaacctgt 420
 accataacac ggagtggact gactggtcct gttattgggt gtctataccc tgttttcttg 480
 gctatacctg taaat 495

<210> 213
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 213
 tgcgaccgcg atctcctgca gctggtgcac cacctcggcg atggacagcc gtcctcccg 60
 gttcacctgc agcatggcga ggatgaggct gtggaagacc gtgtactgcg tgcgtgcgg 120
 ggggatcgag tacttcccat tgactattcg aagtttcgct ccatcctcaa aagggtgctg 180
 ccggaagcac agcaggtaca agatgcagcc caggggccag atatcctgct tctcgccgat 240
 cggaaggtg gaatacaagt ctatgatttc tgggtgttcta tacattgggtg ttgtattcct 300
 cgtgatctga aaaaatacaa acatttcaaa ggaaaagtgt catcccacaa acagtatt 358

<210> 214
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 214
 tggtagcct gcaggtagcg gtccggaatt cccgggtcga cccacgcgtc cgaggacatc 60
 tggaatgtca ctggtgcccc ggtgtacttg agctgtgagg tcatcggaat cccgacacct 120
 gtctcatct ggaacaagggt aaaaaggggt cactatggag ttcaaaggac agaactcctg 180
 cctggtgacc gggacaacct ggccattcag acccggggtg gccagaaaa gcatgaagta 240
 actggctggg tgctggtatc tcctctaagt aaggaagatg ctggagaata tgagtgccat 300
 gcatccaatt cccaaggaca ggcttcagca tcagcaaaaa ttacagtgggt tgatgcctta 360
 catgaaatac cagtgaaaaa aggtgaaggt gccgagctat aaacct 406

<210> 215
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> 66, 71, 259
 <223> n = A,T,C or G

<400> 215
 aggacatctg gaatgtcact ggtgcccagg tgtacttgag ctgtgaggtc atcggaatcc 60

cgacancgtgt nctcatctgg aacaaggtaa aaaggggtca ctatggagtt caaaggacag 120
aacttctgcc tgggtgaccgg gacaacctgg ccattcagac ccgggggtggc ccagaaaagc 180
atgaagtaac tggctgggtg ctggtatctc ctctaagtaa ggaagatgct ggagaatatg 240
agtgccatgc atccaattnc caaggacagg cttcagcatc agcaaaaatt acagtgggtg 300

<210> 216

<211> 232

<212> DNA

<213> Homo sapiens

<400> 216

ttcaaaagct tagagagaat aagcttcttg gtggtgaaat acaactctca cgtgtgctcc 60
agttctaaaa ttaacctgtg cctgggtctct gaagcccttt cttgctctgt gcctttcagc 120
cacatcctta ggtgctaacg gccatgagct ccgactctcc aaagtgagct ccactttggg 180
tctgaggagc ccctggcaga gtccacgctg cctcaggtat catggggcgta at 232

<210> 217

<211> 453

<212> DNA

<213> Homo sapiens

<400> 217

ataagcttct tgggtgtgaa actacaactc tcacgtgtgc tccagttcta aaattaacct 60
gtgcctgtgc tctgaagccc tttcttgtgc tgtgcctttc agccacatcc ttaggtgcta 120
acggccatga gctccgactc tccaaagtga gctccacttt gggctctgagg agccctggc 180
agagtccacg ctgcctcagg tatcatgggc gtaatgatca ccaggctcc gggagatctc 240
atggatgatt actgtatgag acagagggga cttcagttct tccagggcct tgggtggaatt 300
tttggtcttg gtgttttcgc cagacaataa acttacactg gaagctttga ttcaccctcc 360
acagtactcc agaaaggact gtcctataag ttgtacactt taaaagggtca tgtagagggt 420
gtagtagaat ggcttttcac cctggtgact ttg 453

<210> 218

<211> 520

<212> DNA

<213> Homo sapiens

<400> 218

agatgtgtga gaagtgcccc acctgccccg atgcatgcag caccaagaga gattgcgtcg 60
agtgcctgct gctccactct gggaaacctg acaaccagac ctgccacagc ctatgcaggg 120
atgaggtgat cacatgggtg gacaccatcg tgaaagatga ccaggaggct gtgctatgtt 180
tctacaaaac cgccaaggac tgcgtcatga tgttcaccta tgtggagctc ccagtgagg 240
agtccaacct gaccgtcctc agggagccag agtgtggaaa caccaccaac gccatgacca 300
tcctcctggc tgtggtcggg agcctcctcc ttgttgggct tgcactcctg gctatctgga 360
agctgcttgt caccatccac gaccggaggg agtttgcaaa gtttcagagc gagcgatcca 420
gggcccgcct tgaatggct tcaaatctat tatacagaaa gcctatctcc acgcacactg 480
tggaattcac cttcaacaag ttcaacaaat cctacaatgg 520

<210> 219

<211> 404

<212> DNA

<213> Homo sapiens

<400> 219

agatgtgtga gaagtgcccc acctgccccg atgcatgcag caccaagaga gattgcgtcg 60
agtgcctgct gctccactct gggaaacctg acaaccagac ctgccacagc ctatgcaggg 120
atgaggtgat cacatgggtg gacaccatcg tgaaagatga ccaggaggct gtgctatgtt 180
tctacaaaac cgccaaggac tgcgtcatga tgttcaccta tgtggagctc ccagtgagg 240
agtccaacct gaccgtcctc agggagccag agtgtggaaa caccaccaac gccatgacca 300
tcctcctggc tgtggtcggg agcctcctcc ttgttgggct tgcactcctg gctatctgga 360
agctgcttgt caccatccac gaccggaggg agtttgcaaa gttt 404

<210> 220
 <211> 80
 <212> DNA
 <213> Homo sapiens

<400> 220
 atggcttcaa atccattata cagaaagcct atctccacgc acactgtgga cttcaccttc 60
 aacaagttca acaaatccta 80

<210> 221
 <211> 607
 <212> DNA
 <213> Homo sapiens

<400> 221
 tgccccacct gcccgatgc atgcagcacc aagagagatt gcgtcgagt cctgctgctc 60
 cactctggga aacctgacaa ccagacctgc cacagcctat gcagggatga ggtgatcaca 120
 tgggtggaca ccatcgtgaa agatgaccag gaggctgtgc tatgtttcta caaaaccgcc 180
 aaggactgcg tcatgatgtt cacctatgtg gagctcccca gtgggaagtc caacctgacc 240
 gtcctcaggg agccagagtg tggaaacacc cccaacgcca tgaccatcct cctggtgtgtg 300
 gtcggtagca tctctccttg tgggcttgca ctctggcta tctggaagct gcttgtcacc 360
 atccacgacc ggaggagtt tgcaaaagttt cagagcgagc gatccagggc ccgctatgaa 420
 atggcttcaa atccattata cagaaagcct atctccacgc acactgtgga cttcaccttc 480
 aacaagttca acaaatccta caatggcact gtggactgat gtttccttct ccgaggggct 540
 ggagcgggga tctgatgaaa aggtcagact gaaacgcctt gcacggctgc tcggcttgat 600
 cacaact 607

<210> 222
 <211> 583
 <212> DNA
 <213> Homo sapiens

<400> 222
 ggtatgtgcc atcacaagca gatgtggcag tatttgaagc cgtgtccagc ccaccgcctg 60
 ccgacttgtg tcatgcccta cgttgggtata atcacatcaa gtcttacgaa aaggaaaagg 120
 ccagcctgcc aggagtgaag aaagctttgg gcaaataatgg tcctgccgat gtggaagaca 180
 ctacaggaag tggagctaca gatagtaaag atgatgatga cattgacctc tttggatctg 240
 atgatgagga ggaaagtga gaagcaaaga ggctaaggga agaacgtctt gcacaatatg 300
 aatcaaagaa agccaaaaaa cctgcacttg ttgccaaagtc ttccatctta ctagatgtga 360
 aaccttggga tgatgagaca gatatggcga aattagagga gtgcgtcaga agcattcaag 420
 cagacggcct agtctggggc tcatctaaac tagttccagt gggatacggg attaagaaac 480
 ttcaaataca gtgtgtagtt gaagatgata aagttggaac agatatgctg gaggagcaga 540
 tcaactgctt tgaggactat gtgcagtcga tggatgtggc tgc 583

<210> 223
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 223
 tacatcgagg ggtatgtgcc atcacaagca gatgtggcag tatttgaagc cgtgtccagc 60
 ccaccgcctg ccgacttgtg tcatgcccta cgttgggtata atcacatcaa gtcttacgaa 120
 aaggaaaagg ccagcctgcc aggagtgaag aaagctttgg gcaaataatgg tcctgccgat 180
 gtggaagaca ctacaggaag tggagctaca gatagtaaag atgatgatga cattgacctc 240
 tttggatctg atgatgagga ggaaagtga aaagcaaaga ggctaaggga agaagc 296

<210> 224
 <211> 208
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> 97

<223> n = A,T,C or G

<400> 224

```
gactacatct tggacctgca gatcgccctg gactcgcatc ccactattgt cagcctgcat 60
caccagagac ccgggcagaa ccaggcgctc aggacgncgc tgaccaccct caacacggat 120
atcagcatcc tgtccttgca ggcttctgaa ttcccttctg agttaatgtc aaatgacagc 180
aaagcactgt gtggctgaat aagcgggtg                208
```

<210> 225

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 133

<223> n = A,T,C or G

<400> 225

```
gcagcggctg gagcggcaga tcagccagga tgtcaagctg gagccagaca tcctgcttcg 60
ggccaagcaa gatttcctga agacggacag tgactcggac ctacagctct acaaggaaca 120
gggtgagggg cangtgacc ggagcctgcg ggagcgtgat gtgctggaac gggagtttca 180
gcggtcacc atctctgggg aggagaagtg tggggtgccg ttcacagacc tgctggatgc 240
agccaagatg tggcgcgggc gtcttcatcc ggga                274
```

<210> 226

<211> 330

<212> DNA

<213> Homo sapiens

<400> 226

```
ggccgccctt tttttttttt tttttttttg ggcccagggg gggccccctt gggaaaaaca 60
cccggaagaa tcccaaaagg ggccttgagg gaattttttt taaaaaaaaa ccttttttta 120
aaaaaaactt tgggatttaa attttttttc cggccccctt tttgggcccg gtaccccaat 180
ttaaaaaagg ggggcttttt aaagggttggg aaaaaaaaaa aattgggggg gcccaaaaaa 240
ttggggggcc cccaaaaaaa aagcgggggtt tggaaaaatt ttgggggggt ttggaaattt 300
gggccccaaa acggggggacc cctttccccc                330
```

<210> 227

<211> 525

<212> DNA

<213> Homo sapiens

<400> 227

```
gaatttgccc ctcgaggcca agaattcggc acgagggttc acatagcaat ttaatcaagt 60
aatggttaat tagttacccc ctatatataa atatatgtaa tcaatttctt caaatagctt 120
gcttacatga taatcaatta gccaaccatg agtcatttag aatagtataa aatagaatac 180
acagaatagt gatgaaattc aatttaaaaa atcacgttag cctccaaacc atttaattca 240
aatgaaccca tcaactggat gccaaactct gcgaatgtag gacctctgag tggctgtata 300
attgttaatt caaatgaaat tcattttaaac agttgacaaa ctgtcattca acaattagct 360
ccaggaaata acagttattt catcataaaa cagtcacctc aaacacacaa ttgttctgct 420
gaagagttgt catcaacaat ccaatgctca cctattcagt tgctctgtgg tcagtgtggc 480
tgcataacag tggattccat gaaaggagtc attttagtga tgagc                525
```

<210> 228

<211> 788

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 42, 44, 48, 49, 51, 52, 53, 54, 55, 57, 59, 61, 62, 63, 64,
68, 69, 70, 71, 73, 74, 75, 76, 77, 79, 80, 83, 87, 89,
92, 93, 94, 95, 97, 98, 107, 112, 113, 117, 122, 125, 127,
130, 131, 133, 671, 677, 685, 706, 713, 718, 725, 757, 771

<223> n = A,T,C or G

<221> misc_feature

<222> 783

<223> n = A,T,C or G

<400> 228

```
gttcacatag caatttaatc aagtaatcat taattagggg gngngggngng nnnnnngngnt 60
nnnnngtgnnn ngnnnnngnn ggngtgngng tnnnnngnng gaggtgngga anngtntntt 120
tntgngngan nantagaata cacagaatag tgatgaaatt caatttaaaa aatcacgtta 180
gcctccaaac catttaattc aaatgaaccc atcaactgga tgccaactct ggccaatgta 240
ggacctctga gtggctgtat aattgttaat tcaaataaaa ttcatttaaa cagttgacaa 300
actgtcattc aacaatttagc tccaggaaat aacagttatt tcatcataaa acagtccctt 360
caaacacaca attgttctgc tgaagagttg tcatcaacaa tccaatgctc acctattcag 420
ttgctctgtg gtcagtggtg ctgcataaca gtggattcca tgaaaggagt cattttagtg 480
atgagctgcc agtccattcc caggccaggc tgcgctggc catccattca gtcgattcag 540
tcataggcga atctgttctg cccgaagctt gtggtcaagc aaaaattcag ccctgaaaat 600
cagcacatct gttcgggtgga ctaaaccaca gttagtctgt caagcagcaa cccctgtggc 660
atgaccgcca ntgggtncat gcgtntgcac tgggagttgg ccaaantccc gngggtcncg 720
gggtnttttt tgtgggtttt ttttttttag tcttgtnttt gggttaagtgg nttttttttt 780
tcnttggg                                     788
```

<210> 229

<211> 156

<212> DNA

<213> Homo sapiens

<400> 229

```
gccgagggaa gggcccggca gctgaggagc cgctgagctt gctggacgac atgaaccact 60
gctactcccg cctgcgggaa ctggtaccg gagtcccag aggcactcag cttagccagg 120
tggaatcct acagcgcgtc atcgactaca ttctcg                                     156
```

<210> 230

<211> 538

<212> DNA

<213> Homo sapiens

<400> 230

```
tacgactcct ataggaatt tggccctcga ggccaagaat tcggcacgag ggtgactttg 60
gctttgtctg catcatcggc gagaagtcgt tccgccgctc agtgggtggc acgccggcct 120
acctggcacc cgaggtgctg ctcaaccagg gctacaaccg ctgctggac atgtggtcag 180
tgggcgtgat catgtacgtc agcctcagcg gcaccttccc tttcaacgag gatgaggaca 240
tcaatgacca gatccagaac gccgccttca tgtaccggc cagccccctg agccacatct 300
cagctggagc cattgacctc atcaacaacc tgctgcaggt gaagatgctc aaacgctaca 360
gcgtggacaa atctctcagc caccctgtgt tacaggagta ccagacgtgg ctggacctcc 420
gagagctgga ggggaagatg ggagagcgat acatcacgca tgagagtgc gacgcgcgct 480
gggagcagtt tgcagcagag catccgctgc ctgggtctgg gctgcccacg gacaggga 538
```

<210> 231

<211> 232

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 18, 56, 94, 103, 117, 128, 145, 184, 204, 219

<223> n = A,T,C or G

<400> 231
 tggctttgct cgcatacncg gcgagaagtc gtcccgcgc tcagtgggtg gcacgncggc 60
 ctacctggca cccgaggtct tgctcaacca gggntacaac cgntcgctcg acatgtngtc 120
 agtgggcntg atcatgtacg tcagnctcag cggcaccttc cctttcaacg aggatgagga 180
 catnaatgac cagatccaga acgncgactt catgtaccng gccagaccct gg 232

<210> 232
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 232
 taccgggtccg gaattcccg gtcgacccac gcgtccggcg tctctgctcc accaaggtgc 60
 cctggacatg ctgaccaagg tgatggccct agagctcggg cccacaaga tccgagtga 120
 tgcagtaaac cccacagtgg tgatgacgtc catgggccag gccacctgga gtgaccccca 180
 caaggccaag actatgctga accgaatccc acttggaag tttgctgagg tagagcacgt 240
 ggtgaacgcc atcctctttc tgctgagtga ccgaagtggc atgaccacgg gtccacttt 300
 gccgggtgaa gggggcttct gggcctgctg agctccctcc acacacctca agcccatgc 360
 cgtgctcatc ctacccccaa tccctccaat aaacctgatt ctgctgcca aaaaaaaaaa 420

<210> 233
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 170
 <223> n = A,T,C or G

<400> 233
 gngtctactg ctccaccaag ggtgccctgg acatgctgac caaggtgatg gccctagagc 60
 tggggcccca caagatccga gtgaatgcag taaacccac agtgggtgat acgtccatgg 120
 gccaggccac ctggagtgc cccacaagg ccaagactat gctgaaccgn atcccacttg 180
 gcaagtttgc tgaggtagag cacgtggtga acgccatcct ctttctgctg agtgaccgaa 240
 gtggcatgac cacgggttcc actttgccgg tggaaggggg ttctggggct gctg 294

<210> 234
 <211> 55
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 42
 <223> n = A,T,C or G

<400> 234
 gtctcggtcc atgactctgg agatccgaga aggaagaggc tntggcctga gaaag 55

<210> 235
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22, 335, 365, 377, 383, 391
 <223> n = A,T,C or G

```

<400> 235
ttttttgttc atttatattt tntttaagag ctgtgcccag ttttatcatc tcacaagaat 60
gaagcaaggg acaaaggtaa gtgccacgct ccctggccac tgggttcctg gcaagctccc 120
agccactagg tgccaatctc ccttcaatgt actccttctt cccagagtg cagaagcgta 180
tgaagacagt tatgacatgg acacatgcat gagctattat acataattac aaaagctgat 240
tctgtcatca ccacatcttg tctcatcagt aggagcgaat ggctggcggg acggtggcac 300
agtcagcctt gttcaaagtt ttgtcgatca cgggncctat attccagagt gacctttccc 360
agtgnccaac gttccanata ggncagggtc ntgc 394

```

```

<210> 236
<211> 468
<212> DNA
<213> Homo sapiens

```

```

<400> 236
agctcgggat tcggctcgag gacctggaaa ttccaggtgg tgagctgcat cgaaggggag 60
cctgggcccg tcaggagcgt cctcttcaac ccagacggct gctgcctgta cagcggctgc 120
caggactcac tgcgtgtcta cggtgggaa cctgagcggg gctttgatgt ggtcctcgtc 180
aactggggca aggtggccga cctggccatc tgcaatgacc agttgatagg tgtggccttc 240
tcccagagca acgtctcctc ctacgtggtg gatctgacgc gtgtcaccag gactggcacg 300
gtggcccggg accctgtgca ggaccaccgg ccctggcac agccactgcc caacccagc 360
gccccctcc ggcgcatcta tgagcggccc agcacaacct gcagcaagcc tcagagggtg 420
aagcagaact cagagagcga gcgcccgcacc cccagcagcg aggatgac 468

```

```

<210> 237
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 48, 85, 97
<223> n = A,T,C or G

```

```

<400> 237
gacctggaga agttccaggt ggtgagctgc atcgaagggg agcctgggcc cgtcaggagc 60
gtcctcttca acccagacgg ctgcngcctg tacagcngct gccaggactc actgcgtgtc 120
tacggctggg aacctgagcg gtgctttgat gtggctcctg tcaactgggg caaggtggcc 180
gacctggcca tctgcaatga ccagttgata ggtgtggcct tctcccagag caacgtctcc 240
tcctacgtgg tgga 254

```

```

<210> 238
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<400> 238
gaccacgcg tccgtcttca acttcttttag tctcctgag attcctatga ttgggaagct 60
ggaaccacga gaagatgcta tcctggatga ggactttgaa attgggcaga ttttacatga 120
taatgtcatc ctgaaatcaa tctattacta tactggagaa gtcaatggtg cctactatca 180
atttgcaaaa cattatggaa acaagaaata cagaaaataa gtcaatctga aagatttttc 240
aagaatctta aaatctcaag aagtgaagca gattcataca gccttgaaaa aagtaaaacc 300
ctgacctgta acctgaacac tattattcct tatagtcaag tttttgtggt ttcttggtag 360
tctatatttt aaaaatagtc ctaaaaagtg tctaagtgcc agtttattct atctaggct 419

```

```

<210> 239
<211> 228
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 190

<223> n = A, T, C or G

<400> 239

```

gaaccccgcc cgcgccacaca gcgtctgctc cacctccagc ttgtacctgc aggatctgag 60
cgccgcccgc tcagagtgc tgcacccctc ggtggtcttc ccctaccctc tcaacgacag 120
cagctcgccc aagtcctgcg cctcgcaaga ctccagcgcc ttctctccgt cctcggattc 180
tctgcactcn tcgacggagt cctccccgca gggcagcccc gagccct 228

```

<210> 240

<211> 525

<212> DNA

<213> Homo sapiens

<400> 240

```

aaccccgccc gcggccacag cgtctgctcc acctccagct tgtacctgca ggatctgagc 60
gccgcccgcct cagagtgcac cgacccctcg gtggtctctc cctaccctct caacgacagc 120
agctcgccca agtcctgcg ctcgcaagac tccagcgct tctctccgtc ctcgattct 180
ctgctctcct cgacggagtc ctcccgcag ggcagcccc agccctgggt gctccatgag 240
gagacaccgc ccaccaccag cagcgactct gaggaggaac aagaagatga ggaagaaatc 300
gatgttgttt ctgtggaaaa gaggcaggct cctggcaaaa ggtcagagtc tggatcacct 360
tctgctggag gccacagcaa acctcctcac agcccactgg tcctcaagag gtgccacgtc 420
tccacacatc agcacaacta cgcagcgct cctccactc ggaaggacta tcctgctgcc 480
aagaggggtca agttggacag tgtcagagtc ctgagacaga tcagc 525

```

<210> 241

<211> 552

<212> DNA

<213> Homo sapiens

<400> 241

```

tggaaggaaac tggctctgctc acacttgctg gcttgcgcat caggactggc tttatctcct 60
gactcacggt gcaaagggtgc actctgcgaa cgtaaagtcc gtcccagcgc ttggaatcct 120
acggcccccga cagccggatc ccctcagcct tccaggtcct caactcccgc ggacgctgaa 180
caatggcctc catggggcta caggtaatgg gcatcgcgct ggccgtcctg ggctggctgg 240
ccgtcatgct gtgctgcgcg ctgccatgt ggcgcgtgac ggccttcac gccagcaaca 300
ttgtcacctc gcagaccatc tgggagggcc tatggatgaa ctgctgggtg cagagcaccg 360
gccagatgca gtgcaagggtg tacgacttgc tgcctggcact gccgcaggac ctgcaggcgg 420
cccgcgccct cgtcatcatc agcatcatcg tggctgctct gggcgtgctg ctgtccgtgg 480
tgggggggcaa gtgtaccaac tgcctggagg atgaaagcgc caaggccaag accatgatcg 540
tggcggggcgt gg 552

```

<210> 242

<211> 519

<212> DNA

<213> Homo sapiens

<400> 242

```

tggaaggaaac tggctctgctc acacttgctg gcttgcgcat caggactggc tttatctcct 60
gactcacggt gcaaagggtgc actctgcgaa cgtaaagtcc gtcccagcgc ttggaatcct 120
acggcccccga cagccggatc ccctcagcct tccaggtcct caactcccgc ggacgctgaa 180
caatggcctc catggggcta caggtaatgg gcatcgcgct ggccgtcctg ggctggctgg 240
ccgtcatgct gtgctgcgcg ctgccatgt ggcgcgtgac ggccttcac gccagcaaca 300
ttgtcacctc gcagaccatc tgggagggcc tatggatgaa ctgctgggtg cagagcaccg 360
gccagatgca gtgcaagggtg tacgacttgc tgcctggcact gccgcaggac ctgcaggcgg 420
cccgcgccct cgtcatcatc agcatcatcg tggctgctct gggcgtgctg ctgtccgtgg 480
tgggggggcaa gtgtaccaac tgcctggagg atgaaagcg 519

```

<210> 243

<211> 296

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 64, 187, 195
 <223> n = A,T,C or G

<400> 243
 aggttcctca tctgctcgcg aggatgcctt ttctcttctg ccttgcgaaa taacagcagc 60
 ctanctgttg cccgtgacca gtgagaaaag cagcgtcacg ggctgattag gtttcacca 120
 aagggtgccg gcgccgaatt ggtttctaac gagaactttt aaaatgatcc gttccaaaaa 180
 agggtangag ccgcnagacc ctccaactgc ccagagaaaa caagtctcgt ctggcaaaaat 240
 tctcggccca cgcggtccgc ggccaagggg caaaggctct cgcgccacgt tgccga 296

<210> 244
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 244
 cttgcccatt gcgaattgtg gatgactgtg gtggggcctt tacgatgggt accattggtg 60
 gtgggtatctt tcaagcaatc aaagggttttc gcaattctcc agtgggagta aaccacagac 120
 tacgagggag tttgacagct attaaaacca gggctccaca gttaggaggt agctttgcag 180
 tttggggagg gctgttttcc atgattgact gtagtatggt tcaagtcaga ggaaaggaag 240
 atccctggaa ctccatcaca agtgggtgcct taa 273

<210> 245
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 245
 ttcgaattcg gcacgaggct cgatgtacgt cccggaggac ctcttcccg tctacaaaaga 60
 aaaagtgggt cgcgttgacg acattatcac gcccaaccag tttgaggccg agttactgag 120
 tggccggaag atccacagcc aggaggaagc cttgcgggtg atggacatgc tgcactctat 180
 gggcccgac accgtggtca tcaccagctc cgacctgccc tccccgcagg gcagcaacta 240
 cctgattgtg ctggggagtc agaggaggag gaatcccgct ggctccgtgg tgatggaacg 300
 catccggatg gacattcgca aagtggacgc cgtctttgtg ggcaactggg acctgtttgc 360
 tggcatgctc ctggcgtgga cacaca 386

<210> 246
 <211> 239
 <212> DNA
 <213> Homo sapiens

<400> 246
 tttttttttt caaaaaagtc atggaggcca tgggggtggc ttgaaaccag ctttgggggg 60
 ttcgattcct tccttttttg cctaaatttt atgtatacgg gttcttcaaa tgtgtggtag 120
 ggtggggggc atccatatag tcaactccagg tttatggagg gttcttctac tattaggact 180
 tttcgcttca aagcgaaggc ttctcaaadc atgaaaatta ttaattattac tgctgttaa 239

<210> 247
 <211> 623
 <212> DNA
 <213> Homo sapiens

<400> 247
 aaaaagtcac ggaggccatg ggggttggtt gaaaccagct ttgggggggt cgattccttc 60
 cttttttgtc tagattttat gtatacgggt tcttcgaatg tgtggtaggg tggggggcat 120
 ccatatagtc actccagggt tatggagggt tcttctacta ttaggacttt tcgcttcgaa 180
 gcgaaggcct tcctaaatcat gaaaattatt aatattactg ctgttagaga aatgaatgag 240
 cctacagatg ataggatgtt tcatgtggtg tatgcatcgg ggtagtccga gtaacgtcgg 300
 ggcatcccg ataggccgag aaagtgttgt gggaagaaag ttagattttac gccgatgaat 360

```

atgatagtga aatggatttt ggcgtagggt tggcttaggg tgtagcctga gaatagggga 420
aatcagtga tgaagcctcc tatgatggca aatacagctc ctattgatag gacatagtgg 480
aagtgaagta caacgtagta cgtgtcgtgt agtacgatgt ctagtgatga gtttgcta 540
acaatgccag tcaggccacc tacggtgaaa agaaagatga atcctagggc tcagagcact 600
gcagcagatc atttcatatt gct 623

```

<210> 248

<211> 265

<212> DNA

<213> Homo sapiens

<400> 248

```

ggcttagcgg ataacaattt cacacaggag ttgcaccata atcatcgcta tccccaccgg 60
cgtaaaagta ttttagctgac tcgccacact ccacggaagc aatatgaaat gatctgctgc 120
agtgtcttga gccctaggat tcattcttct ttccaccgta ggtggcctga ctggcattgt 180
attagcaaac tcattcactag acatcgctact acacgacacg tactacgttg tagctcactt 240
ccactatgtc ctatcaatag gagct 265

```

<210> 249

<211> 625

<212> DNA

<213> Homo sapiens

<400> 249

```

aatcatcgct atccccaccg gcgtcaaaagt atttagctga ctgccacac tccacggaag 60
caatatgaaa tgatctgctg cagtgtcttg agccctagga ttcattcttc ttttcaccgt 120
aggtggcctg actggcattg tattagcaaa ctcatcacta gacatcgtae tacacgacac 180
gtactacgtt gtagctcact tccactatgt cctatcaata ggagctgtat ttgccatcat 240
aggaggcttc attcactgat ttcccctatt ctacggctac accctagacc aaacctacgc 300
caaaatccat ttcactatca tattcatcgg cgtaaactta actttcttcc cacaacactt 360
tctcggccta tccggaatgc cccgacgtta ctcggaactac cccgatgcac acaccacatg 420
aaacatccta tcatctgtag gctcattcat ttctctaaca gcagtaatat taataatttt 480
catgatttga gaagccttcg cttcgaagcg aaaagtccta atagtagaag aaccctccat 540
aaacctggag tgactatatg gatgcccccc accctaccac acattcgaag aaccctgata 600
cataaaatct agacaaaaaa ggaag 625

```

<210> 250

<211> 253

<212> DNA

<213> Homo sapiens

<400> 250

```

ggcttgtaat acgactcact atagggcttt ttttttttca aaaaagtcac ggaggccatg 60
gggttggtt gaaaccagct ttggggggtt cgattccttc cttttttgtc taaattttat 120
gtatacgggt tcttcaaatg tgtggtaggg tggggggcat ccatatagtc actccaggtt 180
tatggagggt tcttctacta ttaggacttt tcgcttcaaa gcgaaggctt ctcaaatcat 240
gaaaattatt aat 253

```

<210> 251

<211> 290

<212> DNA

<213> Homo sapiens

<400> 251

```

caaaactcatc actagacatc gtactacacg acacgtacta cgttgtagct cacttccact 60
atgtcctatc aataggagct gtatttgcca tcataggagg cgtcattcac tgatttcccc 120
tattctcagg ctacacccta gaccaaact acgcaaaat ccatttcact atcatattca 180
tcggcgtaaa tctaactttc tccccacaac actttctcgg cctatccgga atgccccgac 240
gttattcggg ctacccccgat gcataacca catgaaacat cctatcatct 290

```

<210> 252

<211> 638

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 522, 634, 636

<223> n = A,T,C or G

<400> 252

```

atattttacag taggaataga cgtagacaca cgagcatatt tcacctccgc taccataatc 60
atcgctatcc ccaccggcgt caaagtattt agctgactcg ccacactcca cggaagcaat 120
atgaaatgat ctgctgcagt gctctgagcc ctaggattca tctttctttt caccgtaggt 180
ggcctgactg gcattgtatt agcaaaactca tcactagaca tcgtactaca cgacacgtac 240
tacgttgtag ctcaactcca ctatgtccta tcaataggag ctgtatttgc catcatagga 300
ggcttcattc actgatttcc cctatttctca ggctacaccc tagaccaaac ctacgccaaa 360
atccatttca ctatcatatt catcggcgta aatctaactt tcttcccaca acactttctc 420
ggcctatccg gaatgccccg acgttattcg gactaccccg atgcatacac cacatgaaac 480
atcctatcat ctgtaggctc attcatttct ctaacagcag tnatattaat aattttcatg 540
atgtgagaag ccttcgcttc gaagcgaaaa gtcctaatag tagaagaacc cttcataaac 600
ctggagtgcac tatatggatg cccccaccc tacnanca 638

```

<210> 253

<211> 531

<212> DNA

<213> Homo sapiens

<400> 253

```

ggcttagcgg ataacaattt cacacaggag ttgcaccata tatttacagt aggaatagac 60
gtagacacac gagcatattt cactcgcgt accataatca tcgctatccc caccggcgctc 120
aaagtattta gctgactcgc cactccac ggaagcaata tgaaatgatc tgctgcagt 180
ctctgagccc taggattcat ctctcttttc accgtagggt gcctgactgg cattgtatta 240
gcaaaactcat cactagacat cgtactacac gacacgtact acgttgtagc tcacttccac 300
tatgtcctat caataggagc tgtatttgcc atcataggag gcttcattca ctgatttccc 360
ctatttctcag gctacaccct agacaaaacc tacgccccaa tccatttcac tatcatattc 420
atcggcgtaa atctaacttt ctcccacaa cactttctcg gcctatccgg aatgccccga 480
cgttactcgg actaccccg a tgcatacacc acatgaaaaca tcctatcatc t 531

```

<210> 254

<211> 625

<212> DNA

<213> Homo sapiens

<400> 254

```

atattttacag taggaataga cgtagacaca cgagcatatt tcacctccgc taccataatc 60
atcgctatcc ccaccggcgt caaagtattt agctgactcg ccacactcca cggaagcaat 120
atgaaatgat ctgctgcagt gctctgagcc ctaggattca tctttctttt caccgtaggt 180
ggcctgactg gcattgtatt agcaaaactca tcactagaca tcgtactaca cgacacgtac 240
tacgttgtag ctcaactcca ctatgtccta tcaataggag ctgtatttgc catcatagga 300
ggcttcattc actgatttcc cctatttctca ggctacaccc tagaccaaac ctacgccaaa 360
atccatttca ctatcatatt catcggcgta aatctaactt tcttcccaca acactttctc 420
ggcctatccg gaatgccccg acgttactcg gactaccccg atgcatacac cacatgaaac 480
atcctatcat ctgtaggctc attcatttct ctaacagcag taatattaat aattttcatg 540
atgtgagaag tcttcgcttc gaagcgaaaa gtcctaatag tagaagaacc cttcataaac 600
ctggagtgcac tatatggatg ccccc 625

```

<210> 255

<211> 217

<212> DNA

<213> Homo sapiens

<400> 255

```

tttttttttt taaaaagtca tggaggccat ggggttggt tgaaaccacc tttggggggt 60

```

```
tcaatccctt ccttctttgt ctaaatttta tgtatacggg ttcttcaaatt gtgtggtagg 120
ggggggggca tccatatagc ccctccagggt ttatggagggt ttcttctact attagaactt 180
ttcccttcaa agcaaaggct tctcaaatca tgaaat 217
```

```
<210> 256
<211> 636
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 496, 562, 564, 605, 635
<223> n = A,T,C or G
```

```
<400> 256
aaagtcattg aggccatggg gttggcttga aaccagcttt ggggggttcg attccttct 60
tctttgtcta gattttatgt atacgggttc ttcgaatgtg tggtagggtg gggggcatcc 120
atatagtcac tccaggttta tggagggttc ttctactatt aggacttttc gcttcgaagc 180
gaaggcttct caaatcatga aaattattaa tattactgct gttagagaaa tgaatgagcc 240
tacagatgat aggatgtttc atgtggtgta tgcacgggg tagtccgagt aacgtcgggg 300
cattccggat aggccgagaa agtgttgggt gaagaaagt agatttacgc cgatgaatat 360
gatagtgaat tggattttgg cgtagggttg gtctagggtg tagcctgaga ataggggaaa 420
tcagtgaatg aagcctccta tgatggcaaa tacagctcct attgatagga catagtggaa 480
gtgagctaca acgtantacg tgcgtgttag tacgatgtct agtgatgagt ttgctaatac 540
aatgccagtc aggccaccta cngngaaaaa gaaagatgaa tcctagggtc caaaacacct 600
gcacnagatc atttcatatt ggcttccgtg gactnc 636
```

```
<210> 257
<211> 279
<212> DNA
<213> Homo sapiens
```

```
<400> 257
ggcttagcgg ataacaattt cacacaggag ttgcaccata atcatcgcta tccccaccgg 60
cgtaaaagta tttagctgac tcgccacact ccacgggaagc aatatgaaat gatctgctgc 120
agtgtctga gccctaggat tcatctttct ttccaccgta ggtggcctga ctggcattgt 180
attagcaaac tcatcactag acatcgtagt acacgacacg tactacgttg tagctcactt 240
ccactatgtc ctatcaatag gagctgtatt tgccatcat 279
```

```
<210> 258
<211> 623
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 537
<223> n = A,T,C or G
```

```
<400> 258
aatcatcgct atccccaccg gcgtcaaagt atttagctga ctgccacac tccacggaag 60
caatatgaaa tgatctgctg cagtgtctct agccctagga ttcattcttc ttttcaccgt 120
agggtggcctg actggcattg tattagcaaa ctcatcacta gacatcgtag tacacgacac 180
gtactacgtt gtagctcact tccactatgt cctatcaata ggagctgtat ttgccatcat 240
aggaggcttc attcactgat ttccctatt ctccaggctac accctagacc aaacctacgc 300
caaaatccat ttcactatca tattcatcgg cgtaaatcta actttcttcc cacaacactt 360
tctcggccta tccggaatgc cccgacgtta ctccgactac cccgatgcat acaccacatg 420
aaacatccta tcatctgtag gtcattcat ttctctaaca gcagtaatat taataatttt 480
catgatttga gaagccttcg cttcgaagcg aaaagtccta atagtagaag aaccctncat 540
aaacctggag tgactatatg gatgccccc accctaccac acattcgaag aaccctgata 600
cataaaatct agacaaaaaa gga 623
```


<210> 259
 <211> 189
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 170; 173
 <223> n = A,T,C or G

<400> 259
 tggcctttcc cccttcatgg gagacaacga taacgaaacc ttggccaacg ttacctcagc 60
 cacctgggac ttcgacgacg aggcattcga tgagatctcc gacgatgcca aggatttcat 120
 cagcaatctg ctgaagaaag atatgaaaaa ccgcctggac tgcacgcagn ctntcagcat 180
 ccatggcta 189

<210> 260
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 260
 cctttccccc ttcattgggag acaacgataa cgaaaccttg gccaacgtta cctcagccac 60
 ctgggacttc gacgacgagg cattcgaatga gatctccgac gatgccaagg atttcatcag 120
 caatctgctg aagaaagata tgaaaaaccg cctggactgc acgcagtgcc ttcagcatcc 180
 atgggctaata aaagatacca agaacaatgga ggccaagaaa ctctccaagg accggatgaa 240
 gaagtacatg gcaagaagga aatggcagaa aacgggcaat gctgtgagag ccattggaag 300
 actgtcctct atggcaatga tctcagggct cagtggcagg aaatcctcaa cagggtcacc 360
 aaccagcccg ctcaatgcag aaaaactaga atctgaagaa gatgtgtccc aagctttcct 420
 tgaggctgtt gctgaggaaa agcctcatgt aaaaccctat ttctctaaga ccattcgcga 480
 tttagaagtt gtggaggga gtgctgc 507

<210> 261
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 261
 tttttttttt tttttttttt ttttttggcc gagactccaa gactattatt tttatttccg 60
 gacaaaaaca tctgcttcac acagtgcacg gcataaaatg aagaggaaag aacttgtatc 120
 ccaaagcctg gctttctgta tcatccacaa attaagacag catctgctga gcccatgctg 180
 agcctgtcac agt 193

<210> 262
 <211> 235
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 183, 184, 185, 193
 <223> n = A,T,C or G

<400> 262
 cccacttccc caggagcagg ccacagaccc ccttgtggac agcctgggca gtggcattgt 60
 ctactcagcc cttacctgcc acctgtgcgg ccacctgaaa cagtgtcatg gccaggagga 120
 tgggtggccag acccctgtca tggccagtcc ttgctgtggc tgctgtgtg gagacaggtc 180
 ctnnnccctt acnaccctcc tgagggtccc agaccctct ccagggtggg ttcca 235

<210> 263
 <211> 493
 <212> DNA

<213> Homo sapiens

<400> 263

```

agaatttcag cagttctctg atttttatat tttattcctc ttcctatcca atccctgcct 60
tttgagtcca ggtggttaagt acattttctt taacgttttt cctgcttttc ttcccaaagt 120
tgtctttttc tttgggctac tgtaccctgc ttccagtgcg gtccccggca taggtccatc 180
tctgcagaag ccatttcagg agtacctgga ggctcaacgg cagaagcttc accacaaaag 240
cgaaatgggc acaccacagg gagaaaactg cttgtcctgg atgtttgaaa agtcggtcga 300
tgtcatggtg tgttacttca tcctatctat cattaactcc atggcacaaa gttatgccaa 360
acgaatccag cagcgggtga actcagagga gaaaactaaa taagtagaga aagttttaaa 420
ctgcagaaat tggagtggat gggttctgcc ttatatggg aggactccaa gccgggaagg 480
aaaattccct ttt                                     493

```

<210> 264

<211> 345

<212> DNA

<213> Homo sapiens

<400> 264

```

agaatttcag cagttctctg atttttatat tttattcctc ttcctatcca atccctgcct 60
tttgagtcca ggtggttaagt acattttctt taacgttttt cctgcttttc ttcccaaagt 120
tgtctttttc tttgggctac tgtaccctgc ttccagtgcg gtccccggca taggtccatc 180
tctgcagaag ccatttcagg agtacctgga ggctcaacgg cagaagcttc accacaaaag 240
cgaaatgggc acaccacagg gagaaaactg gttgtcctgg atgtttgaaa agtcggtcgt 300
tgtcatggtg tgttacttca tcctatctat cattaactcc atggt                                     345

```

<210> 265

<211> 374

<212> DNA

<213> Homo sapiens

<400> 265

```

tagaagagct aacctcacac tcatccact ctaaactatg tgattcaaca ctgattttac 60
atccaacaaa gtgaaatctt gatagttggg tgtaaaaagg agagtaatgg agatttcaga 120
gtagttgggg ttgcttactt ttcattttta attctttagg ttttgtaagt tacacacttc 180
aagcattata gatgatcctc tttttactac tgaactaatg aagccttttt cattgcattg 240
ttctgcattt atttctacag ggagaaaact ggttgtcctg gatgtttgaa aagttgggtc 300
ttgtcatggt gtgttacttc atcctatcta tcattaactc catggcacaa agttatgcc 360
aacgaatcca gcag                                     374

```

<210> 266

<211> 360

<212> DNA

<213> Homo sapiens

<400> 266

```

tttttttttt tttttttttg tgcggtggga attctctaatt tgtatcatgt gggccttttg 60
aaagtaacaa acagaaggcc agtctgctgc aagtttgctg ctgaacatca cattccaccc 120
taagaaaaca caagtggtgat tgcacgagg gtggatacct taccttagca cggaaggaaa 180
aagtatgtca gtgcaaagta tggactaaac tgctttcagg aaaaaagttg taaaaattga 240
tacaggttgg aaaagggaat tttccttccc ggcttgagg cctcccaatt taaggcagaa 300
cccatccact ccaatttctg cagtttaaaa ctttctctac ttatttagtt ttctcctctg 360

```

<210> 267

<211> 247

<212> DNA

<213> Homo sapiens

<400> 267

```

ctggaattgt catctttgga acagtgattg caacagcact tatgggattg acagagaaac 60
tgattttttc cctgagagat cctgcataca gtacattccc gccagaagggt gttttcgtaa 120

```

atacgcttgg ccttctgac ctggtgttcg gggccctcat ttttggata gtcaccagac 180
 cgcaatggaa acgtcctaag gagccaaatt ctaccattct tcatccaaat ggaggcatga 240
 acaggga 247

<210> 268
 <211> 350
 <212> DNA
 <213> Homo sapiens

<400> 268
 taatggattt gtttggagat ggcatgttgg tagacgactg aatatggaaa ggatatcaag 60
 ttatctattt tgtaatttt atttttgttt tttatcatct agatttttat catggattag 120
 tctgaaattt aaagttcttg ccagtcgggtt ttctttcatc ttgtagtttt tacagtattt 180
 ccactgtgca tatgcaaaat ggggtattaca taactgtatc atatttggta ttgataattt 240
 tttttttttt ttggaaacgg gtttttgttt tggcccagcc caaaaacatc ccttggttac 300
 cccttccggg gaaaaaaaac caaacccctt ttctggggaa aaaaaaaggg 350

<210> 269
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 81, 195, 231, 247, 298, 307, 317, 395, 427, 446, 451
 <223> n = A,T,C or G

<400> 269
 ttttttttaa atcaaaagagt agtttattaa aaaaggaatc aaacaggaaa ctctaagtac 60
 cagtgtgtac attgtacaat nttaaatgac tcacgagaat gaagtttttt tcaaataat 120
 taagatcaca ccaccttggt gtttatcgaa agatattcaa ggagaaagat ctgactctcc 180
 aaactgcac tgagnattgc cactttaaac aggacctcat ttcaaacatg ncaacaacgc 240
 cactggntaa taaagccttt gggaatgggg tgctcattct attatttcac tacaacnngc 300
 atagganagg caggagnagt tggggaattt attctaaaat aggaatggga gggttgtcca 360
 tctacagcag gcactccttc acttcctctg tttgnccttt ttaggcagta ctccttggtc 420
 ggtcttngaa cggttttcca accctnttca ntggg 455

<210> 270
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17, 20, 391, 430
 <223> n = A,T,C or G

<400> 270
 ttttctgacg tctgttntcn aggctggaag aaatgagcag aaaacaaggg atgagtactt 60
 ttttagagtat gtgcatgtta cgtaatacct gtttctgggc aatgctgctt cttctgactc 120
 aacaaatggg gagagcaaat tgaaaatgag taaattggaa ggcaagttct gaaattaaac 180
 gttgtacttt ggcctgatgt tctgaccttt aaggaagcaa gaggttgtta acttccaaat 240
 atttactatt ctgaactgcc gtgtaaacct gacgtattcc caagtcaaca taccagtata 300
 ccaataggat gtgaataatg tttgtgttga gtttaaaacc atagcagttt tgctctggca 360
 agtaatggaa agcgttctcg cttcctgagt ntgagctcca gcagactgca gaggggccag 420
 tgccacagtn gtagcctgac ttcc 444

<210> 271
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 271

```

ggttctgcgc tggtcggcgg agtagcaagt ggccatgggg agcctcagcg gtctgcgcct 60
ggcagcagga agctgtttta ggttatgtga aagagatggt tcctcatctc taaggcttac 120
cagaagctct gatttgaaga gaataaatgg atttgcaca aaaccacagg aaagtcccg 180
agctccatcc cgcaactaca acagagtgcc ttacacaaa cctacggatt ggcagaaaaa 240
gatcctcata tggtcaggtc gcttcaaaaa ggaaggtgaa atcccagaga ctgtctcgtt 300
ggagatgctt gatgctgcaa agaacaagat gcgagtgaag atcagctatc taatgattgc 360
cctgacgggtg gtaggatgca tcttcatggt tattgagggc aagaaggctg cccaaagaca 420
cgagacttta acaagcttga acttagaaaa gaaagctcgt ctgaaagagg aagcagctat 480
gaaggccaaa acagagtagc ag

```

<210> 272

<211> 377

<212> DNA

<213> Homo sapiens

<400> 272

```

ggttctgcgc tggtcggcgg agtagcaagt ggccatgggg agcctcagcg gtctgcgcct 60
ggcagcagga agctgtttta ggttatgtga aagagatggt tcctcatctc taaggcttac 120
cagaagctct gatttgaaga gaataaatgg atttgcaca aaaccacagg aaagtcccg 180
agctccatcc cgcaactaca acagagtgcc ttacacaaa cctacggatt ggcagaaaaa 240
gatcctcata tggtcaggtc gcttcaaaaa ggaaggtgaa atcccagaga ctgtctcgtt 300
ggagatgctt gatgctgcaa agaacaagat gcgagtgaag atcagctatc taatgattgc 360
cctgacgggtg gtaggaa

```

<210> 273

<211> 552

<212> DNA

<213> Homo sapiens

<400> 273

```

agctcggaat tgggctcgag tctgctcagc ctgggtgaacc cacaggcccg agtttcaccc 60
agtccccact ccacggtgca gctgcggcct atctctcagc ccagcgagat gccagccttc 120
ctgtcccggg ccagcgtctt gacatgcaga aggtgaccct gggcctgctt gtgttcttg 180
caggctttcc tgtcctggac gccaatgacc tagaagataa aaacagtcct ttctactatg 240
actggcacag cctccagggtt ggcgggctca tctgcgctgg ggttctgtgc gccatgggca 300
tcatcatcgt catgagtgca aaatgcaaat gcaagtttgg ccagaagtcc ggtcaccatc 360
caggggagac tccacctctc atcacccag gctcagccca aagctgatga ggacagacca 420
gctgaaattg ggtggaggac cgttctctgt cccaggtcc tgtctctgca cagaaacttg 480
aactccagga tggaaattctt cctcctctgc tgggactcct ttgcatggca gggcctcatc 540
tcacctctcg ca

```

<210> 274

<211> 186

<212> DNA

<213> Homo sapiens

<400> 274

```

ctgctcagcc tggatgaacac acagcccgat ttaccagtc cccactccag gtgcagctgc 60
ggcttatctc tcagcccagc gagatgccag ccttcctgtc ccgggccagc gctctgacat 120
gcagaagggtg accctgggccc tgcctgtgtt cctggcaggc tttcctgtcc tggagcggaa 180
tgacct

```

<210> 275

<211> 121

<212> DNA

<213> Homo sapiens

<400> 275

```

tctgctcagc ctgggtgaacc acacaggccc gagtttcacc cagtccccac tccacgggtgc 60
agctgcggct tatctctcag cccagcgaga tgccagcctt cctgtcccg ggcagcgctc 120
t

```

<210> 276
 <211> 336
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 336
 <223> n = A,T,C or G

```
<400> 276
agggaccgc agctcagcta cagcacagat cagcaccatg aagcttctca cgggcctggt 60
tttctgctcc ttggtcctga gtgtcagcag ccgaagcttc ttttcgttcc ttggcgaggc 120
ttttgatggg gctcgggaca tgtggagagc ctactctgac atgagagaag ccaattacat 180
cggctcagac aaatacttcc atgctcgggg gaactatgat gctgccaaaa ggggacctgg 240
gggtgcctgg gccgcagaag tgatcagcaa tgccagagag aatatccaga gactcacagg 300
ccatggtgcg gaggactcgc tggccgatca ggctgn 336
```

<210> 277
 <211> 460
 <212> DNA
 <213> Homo sapiens

```
<400> 277
tgcagacgga ggtcagggtc tcctctttcc tgagactgga tctgttcaaa cagcaaacgc 60
ccacagatgg cccagagggtg gtggtagtca ggggtgtgtg gtgtttttag ggttctttag 120
tggtgtttct ttcacccagg ggtggtgggc ccagccagtt tgggtgctgac ggtgagagga 180
aattagaatc tgtttgcaaa ttgtccaacc cacccttca acatgagggg cttccatttt 240
ctgtgttttg taagggaact gtttccttca tgccgccatg ttcctgatat tagttctgat 300
ttctttttta caaatgttat catgattaag aaaattttcca gcactttaat ggccaattaa 360
ctgagaatgt aagaaaattg atgctgtaca aggcaataa agctgtttat taaccttgaa 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttttttgggg 460
```

<210> 278
 <211> 432
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 46, 151, 350, 362, 383, 403, 417
 <223> n = A,T,C or G

```
<400> 278
ggggttgccag acggagggtca ggtcttcctc tttcctgaga ctgganctgt tcaaacagca 60
aacgcccaca gatggcccag aggtggtggt agtcagggtg tgtgggtggt tttagggttc 120
tttagtggtg tttctttcac ccagggggtg ntgggtcccag ccagtttggt gctgacggtg 180
agaggaaatt agaattctgt tgcaaatgtt ccaacccacc ccctcaacat gaggggcttc 240
cattttctgt gttttgtaag ggaactgttt ccttcatgcc gccatgttcc tgatattagt 300
tctgatttct ttttaacaaa tgttatcatg attaaagaaa tttccagcan ttaatgggcc 360
anttaactga gaatgtaaga aantgatgct gttacaaggc aantaaagcc gttttantta 420
accctgaaaa aa 432
```

<210> 279
 <211> 467
 <212> DNA
 <213> Homo sapiens

```
<400> 279
acgtgacgcg gggccaggcg gccgtacagc agctgcaggc ggagggcctg agcccgcgct 60
tccaccagct ggacatcgac gatctgcaga gcatccgcgc cctgcgcgac ttcctgcgca 120
```

```

aggagtacgg gggcctggac gtgctgtgtca acaacacggg catcgccctc aagggttctg 180
atcccacacc ctttcatatt caagctgaag tgacgatgaa aacaaatttc tctggtaccc 240
gagatgtgtg cacagaatta ctccctctaa taaaacccca agggagagtgt gtgaacgtac 300
ctagcatcat gagcgtcaga gcccttaaaa gctgcagccc agagctgcag cagaagttcc 360
gcagtgcagc catcactgag gaggagctgg tggggctcat gaacaagttt gtggaggata 420
caaagaaggg agtgcaccag aaggagggtt ggcccagcag cgcatac 467

```

<210> 280

<211> 626

<212> DNA

<213> Homo sapiens

<400> 280

```

tacggccggg acgtgacgag gggccaggcg gccgtacagc agctgcaggc ggagggcctg 60
agcccgcgct tccaccagct ggacatcgac gatctgcaga gcatccgcgc cctgcgcgac 120
ttcctgcgca aggagtacgg gggcctggac gtgctgtgtca acaacacggg catcgccctc 180
aagggttctg atcccacacc ctttcatatt caagctgaag tgacgatgaa aacaaatttc 240
tctggtaccc gagatgtgtg cacagaatta ctccctctaa taaaacccca agggagagtgt 300
gtgaacgtac ctagcatcat gagcgtcaga gcccttaaaa gctgcagccc agagctgcag 360
cagaagttcc gcagtgcagc catcactgag gaggagctgg tggggctcat gaacaagttt 420
gtggaggata caaagaaggg agtgcaccag aaggagggtt ggcccagcag cgcatacggg 480
gtgacgaaga ttggcgtcac cgttctgtcc aggatccacg ccaggaaact gagtgcagcag 540
aggaaggggg acaagatcct cctgaatgcc tgctgccacg ggtgggtgag aactgacatg 600
gcgggaccca aggccaccaa gagccc 626

```

<210> 281

<211> 487

<212> DNA

<213> Homo sapiens

<400> 281

```

tggcctgttc ctcagcgagg gcctgaagct agtggataag tttttggagg atgttaaaaa 60
gttgtaccac tcagaagcct tcaactgtcaa cttcggggac accgaagagg ccaagaaaca 120
gatcaacgat tacgtggaga aggttactca agggaaaatt gtggatttgg tcaaggagct 180
tgacagagac acagtttttg ccctggtgaa ttacatcttc tttaaaggca aatgggagag 240
accctttgaa gtcaaggaca ccgaggaaga ggacttccac gtggaccagg cgaccaccgt 300
gaaggtgcct atgatgaagc gtttaggcat gtttaacatc cagcactgta agaagctgtc 360
cagctgggtg ctgctgatga aatacctggg caatgccacc gccatcttct tcctgcctga 420
tgaggggaaa ctacagcacc tggaaaatga actcaccacc gatatcatca ccaagttcct 480
ggaaaat 487

```

<210> 282

<211> 345

<212> DNA

<213> Homo sapiens

<400> 282

```

tggcctgttc ctcagcgagg gcctgaagct agtggataag tttttggagg atgttaaaaa 60
gttgtaccac tcagaagcct tcaactgtcaa cttcggggac accgaagagg ccaagaaaca 120
gatcaacgat tacgtggaga aggttactca agggaaaatt gtggatttgg tcaaggagct 180
tgacagagac acagtttttg ccctggtgaa ttacatcttc tttaaaggca aatgggagag 240
accctttgaa gtcaaggaca ccgaggaaga ggacttccac gtggaccagg cgaccaccgt 300
gaaggtgcct atgatgaagc gtttaggcat gtttaacatc cagca 345

```

<210> 283

<211> 495

<212> DNA

<213> Homo sapiens

<400> 283

```

cgcccgccct tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttc aaaaaaaaaa ttttttgggt tttttttttt aaaacttttt tttttttttt 120

```

```

ttttgggggg ggccaaattc ccccccaaaa aaaaaaaaaa aggggggggt ttccccccc 180
cccccttttt tttttggggg ggtttttttt tttggggggg gcccccccc cctttttttt 240
tttttgga aaatcccc ccttggggg ggtttctttt tcccaaagg agttttttt 300
cccccccc cgggggggg ggggggtttt tttttttta aaaaaaaaaac ccccgga aa 360
aaaaaaacc ccccccccc ccccccccc aaaaaaaaaa agggggggaa aaatgggggc 420
ccccctttt ttttttttt tttttttgg ggggggaaa aaaaacccc ccccccttt 480
tgggggggtt ttttt 495

```

<210> 284

<211> 503

<212> DNA

<213> Homo sapiens

<400> 284

```

attccgttgc tgtcagcat gaccaagcag ctgggtgact tctggacacg gatggaggag 60
ctccgccacc aagcccggca gcagggggca gaggcagtcc aggccagca gcttgaggaa 120
ggtgccagcg agcaggcatt gaggcccaa gagggatttg agagaataaa acaaaagtat 180
gctgagttga aggaccggtt ggtcagagt tccatgctgg gtgagcagg tgcccgatc 240
cagagtgtga agacagaggc agaggagctg tttggggaga ccatggagat gatggacagg 300
atgaaagaca tggagttgga gctgctgcgg ggcagccagg ccatcatgct gcgctcagcg 360
gacctgacag gactggagaa gcgtgtggag cagatccgtg accacatcaa tgggcgcgtg 420
ctctactatg ccacctgcaa gtgatgctac agcttcacg ccgttgcccc actcatctgc 480
cgcctttgct tttggttggg ggc 503

```

<210> 285

<211> 581

<212> DNA

<213> Homo sapiens

<400> 285

```

agtggcactg caggaagctc aggacaccat gcaaggcacc agccgctccc ttcggcttat 60
ccaggacagg gttgctgagg ttcagcaggt actgcggcca gcagaaaagc tggtgacaag 120
catgaccaag cagctgggtg acttctggac acggatggag gagctccgcc accaagccc 180
gcagcagggg gcagaggcag tccaggccca gcagcttgcg gaaggtgcca gcgagcaggc 240
attgagtgcc caagagggat ttgagagaat aaaacaaaag tatgctgagt tgaaggacc 300
gttgggtcag agttccatgc tgggtgagca ggggtcccgg atccagagt tgaagacaga 360
ggcagaggag ctgtttggg agaccatgga gatgatggac aggatgaaag acatggagt 420
ggagctgctg cggggcagcc aggccatcat gctgcgctca gcggacctga caggactgga 480
gaagcgtgtg gagcagatcc gtgaccacat caatgggcgc gtgctctact atgccacctg 540
caagtgatgc tacagcttcc agcccgttgc cccactcatc t 581

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<210> 286

<211> 598

<212> DNA

<213> Homo sapiens

<400> 286

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agtggcactg caggaagctc aggacaccat gcaaggcacc agccgctccc ttcggcttat 60
ccaggacagg gttgctgagg ttcagcaggt actgcggcca gcagaaaagc tggtgacaag 120
catgaccaag cagctgggtg acttctggac acggatggag gagctccgcc accaagccc 180
gcagcagggg gcagaggcag tccaggccca gcagcttgcg gaaggtgcca gcgagcaggc 240
attgagtgcc caagagggat ttgagagaat aaaacaaaag tatgctgagt tgaaggacc 300
gttgggtcag agttccatgc tgggtgagca ggggtcccgg atccagagt tgaagacaga 360
ggcagaggag ctgtttggg agaccatgga gatgatggac aggatgaaag acatggagt 420
ggagctgctg cggggcagcc aggccatcat gctgcgctca gcggacctga caggactgga 480
gaagcgtgtg gagcagatcc gtgaccacat caatgggcgc gtgctctact atgccacctg 540
caagtgatgc tacagcttcc agcccgttgc cccactcatc tgccgccttt gcttttgg 598

```

<210> 287

<211> 316

<212> DNA

<213> Homo sapiens

<400> 287

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ctgcccttca cctcgcagtg gacctgcaaa atcctgacct ggtgtcactc ctgttgaagt 60
gtggggctga tgtcaacaga gttacctacc agggctattc tccctaccag ctccacctggg 120
gccgcccaag caccgcgata cagcagcagc tgggccagct gacactagaa aaccttcaga 180
tgctgccaga gagtgaggat gaggagagct atgacacaga gtcagagttc acggagttca 240
cagaggacga gctgccctat gatgactgtg tgtttgaggg ccagcgtctg acgttatgag 300
cgcaaagggg ctgaaa                                     316

```

<210> 288

<211> 275

<212> DNA

<213> Homo sapiens

<400> 288

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atgattagga gaagtgggtg ccacagtcga aaaatcccaa ggcccaaacc tgcaccactg 60
actgtcgaaa tacagcaaaa gattttgcat ttgccaacat cttgggactg gagaaatgtt 120
catggtatca attttgtcag tcctgttcga aaccaagcat cctgtggcag ctgctactca 180
tttgcttcta tgggtatgct agaagcgaga atccgtatac taaccaacaa ttctcagacc 240
ccaatcctaa gccctcagga ggttgtgtct tgtag                                     275

```

<210> 289

<211> 522

<212> DNA

<213> Homo sapiens

<400> 289

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cagaagggaa caccagagct ttgctaataa ttagtgtggt caagagccgt ctgagcctaa 60
tgagtcccag ctgcattagg ttaagagact cttccagagc catcgccagg tcgggaatgg 120
cacctctccc taggatacac agcctgcagg tccccaggac ctggatgaca ccgcctcac 180
tgtggcagtg tattgcctgt taattgctgc taattcta tctgatgatg actcctactc 240
cattgtttac cccaaagcat cagctaggct ggagtgattt gttacaaatg agcaaaaagat 300
gagtccttgc ttccctcaga aataaaaagga gctcagctgc agcgttgcat tgggcttctt 360
ggcctcccaa ctcttccac tcccagaatc cagaagtaag ctctgcatgt tccccttctt 420
gggaggaaac cagttgtcag aaggatgtat gatgaccccc tcccctccca tccttcacct 480
cctaagcagt cctggctttt cctcatcact cccctctaca gt                                     522

```

<210> 290

<211> 331

<212> DNA

<213> Homo sapiens

<400> 290

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aacaccagag ctttgctaata aattagtgtg gtcaagagcc gtctgagcct aatgagtcct 60
agctgcatta ggttaagaga ctcttccaga gccatcgcca ggtcttgaat ggcacctctc 120
cctaggatac acagcctgca ggtccccagg acctggatga caccgcctc actgtggcag 180
tgtattgcct gttaattgct gctaattcta attctgatga tgactcctac tccattgttt 240
accccaaagc atcagctagg ctggagtgat ttgttacaaa tgagcaaaag atgagtcctt 300
gcttccctca gaaataaaag gagctcagct g                                     331

```

<210> 291

<211> 228

<212> DNA

<213> Homo sapiens

<400> 291

```

gagatgcaaa gcaggattca aaagaacatc tttgcgtttt ctaccggctc cccatcatcg 60
tactaggagg gaagaagcgg gtgagaaaaca aaacttcttt ccattgtcct gcccgtttct 120
gcgacttgt tctgaggccg aggcacctct aagatactga tggctctgca gaggacctat 180
tcattgtctc tgcttttgct gctgaccctg ctggggctgg ggctggtc                                     228

```

<210> 292

<211> 342
 <212> DNA
 <213> Homo sapiens

<400> 292
 ggagctgtcc tgcaccgtgg tggagctgaa gtacacaggc aatgccagcg cactcttcat 60
 cctccctgat caagacaaga tggaggaagt ggaagccatg ctgctcccag agaccctgaa 120
 gcggtggaga gactctctgg agttcagaga gataggtgag ctctacctgc caaagttttc 180
 catctcgagg gactataacc tgaacgacat acttctccag ctgggcattg aggaagcctt 240
 caccagcaag gctgacctgt cagggatcac aggggccagg aaccctacag tctcccaggt 300
 ggtccataag gctgtgcttg atgtatttga ggagggcaca ga 342

<210> 293
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 293
 ggagctgtcc tgcaccgtgg tggagctgaa gtacacaggc aatgccagcg cactcttcat 60
 cctccctgat caagacaaga tggaggaagt ggaagccatg ctgctcccag agaccctgaa 120
 gcggtggaga gactctctgg agttcacaga gataggtgag ctctacctgc caaagttttc 180
 catctcgagg gactataacc tgaacgacat acttctccag ctgggcattg aggaagcctt 240
 caccagcaag gctgacctgt cagggatcac aggggccagg aacctagcag tctcccaggt 300
 ggtccataag g 311

<210> 294
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 294
 cggctgagag aagacgacag aagggaagat ggaggaagtg gaagccatgc tgctcccaga 60
 gaccctgaag cgggtggagag actctctgga gtacagagag ataggtgagc tctacctgcc 120
 aaagttttcc atctcgaggg actataacct gaacgacgac ttctccagct gggcattgag 180
 gaagccttca ccagcaaggc tgacctgtca gggatcacag gggccaggaa cctagcagtc 240
 tcccaggtgg tccataaggc tgtgcttgat gtatttgagg agggcacaga agcatctgct 300
 gccacagcag tcaaaatcac cctcctttct gcattagtgg agacaaggac cattgtgcgt 360
 ttcaacaggc ccttctctgat gatcattgtg cctacagaca cc 402

<210> 295
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 295
 ttccatctcg agggactata acctgaacga cgacttctcc agctgggcat tgaggaagcc 60
 ttcaccagca aggtgacct gtcagggatc acaggggcca ggaacctagc agtctcccag 120
 gtggtccata aggtgtgct tgatgtattt gaggagggca cagaagcatc tgctgccaca 180
 gcagtcacaaa tcaccctcct ttctgcatta gtggagacaa ggaccattgt gc 232

<210> 296
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 296
 tgactctgac ttctgaggaa gagggccggt tgaagaagag tgcacatcac tttgggggat 60
 ccaaaaggag ctgcaatttt aaagtcttct gatgtcatat catttcaactg tctaggctac 120
 aacaggattc taggtggagg ttgtgcatgt tgtccttttt atctgatctg cgattaaaagc 180
 agtaatatTT taagatggac tgggaaaaac atcaactcct gaagtttagaa ataagaatgg 240
 tttgtaaaat ccacagctat atcctgatgc tggatggtat taatcttgtg tagtcttcaa 300
 ctggttagtg tgaaatagtt ctgccacctc tgacgcacca ctgccaatgc tgtacgtact 360

gcatttgccc cttgagccag gtggatgttt accgtgtgtt atataactta ctggctcctt 420
cactgaacat gccta 435

<210> 297

<211> 309

<212> DNA

<213> Homo sapiens

<400> 297

atcatttcac tgtctaggct acaacaggat tctaagggga cgttgtgcat gttggccttt 60
gtatctgac tgtgattaaa gcagtaatat ttttaagatgg actgggaaaa acatcaactc 120
ctgaagttag aaataagaat ggtttgtaaa atccacagct gtatgctgaa gctggatggg 180
attaatcttg cgtagtcttc aactgggttag gtgaaatagt tctgccacct ctgacgcacc 240
actgccaatg ctgtacgtac tggatttggc ccttgagcca ggtggatgtt caccgggcgt 300
gatataact 309

<210> 298

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 342

<223> n = A,T,C or G

<400> 298

atcatttgac tgtctaggct acaacaggat tctaggtgga ggttgtgcat gttgtccttt 60
ttatctgac tgtgattaaa gcagtaatat ttttaacatgg actgggaaaa acatcaactc 120
ctgaagttag aaataagaat ggtttgtaaa atccacagct atatcctgat gctggatggg 180
attaatcttg tgtagtcttc aactgggttag ttgaaatagt tctgccacct ctgacgcacc 240
actgccaatg ctgtacgtac tgcatttggc ccttgagcca ggtggatgtt taccgtgtgt 300
tatataactt cctggctcct tcaactgaaca tgcctagtcc an 342

<210> 299

<211> 266

<212> DNA

<213> Homo sapiens

<400> 299

gggacagaat ggctatctcg gaccttgtag aggtgactct gacttctgag gaagacgccc 60
gcttgaagaa gagagcccat acactttggg ggatccaaaa cgagctgcga ttttcaagtc 120
ttctgatgtc atatcattcc actgtctagg ctacaacagg attctagggg gacgttggtc 180
atgttggcct ttttatctga tctgtgacta aagcactaat attttaagat ggactgggaa 240
aaacatcaac tcctgaagtt agaaat 266

<210> 300

<211> 383

<212> DNA

<213> Homo sapiens

<400> 300

ggacagaatg gaatctcaga ccttgtgaag gtgactctga cttctgagga agaggcccgt 60
ttgaagaaga gtgcagatac actttggggg atccaaaagg agctgcaatt ttaaagtctt 120
ctgatgtcat atcatttcac tgtctaggct acaacaggat tctaggtgga ggttgtgcat 180
gttgaccttt ttatctgac tgtgattaaa gcagtaatat ttttaagatgg actgggaaaa 240
acatcaactc ctgaagttag aaataagaat ggtttgtaaa atccacagct atatcctgat 300
gctggatggg attaatcttg tgtagtcttc aactgggttag tgtgaaatag ttctgccacc 360
tctgacgcac cactgccaat gct 383

<210> 301

<211> 453

<212> DNA

<213> Homo sapiens

<400> 301

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aaccgcttct ccggtgaaca acatactaga tggggacaga atggaatctc agaccttgtg 60
aagggtgactc tgacttctga ggaagaggcc cgtttgaaga agagtgcaga tacacttttg 120
gggatccaaa aggagctgca attttaaagt cttctgatgt catatcattt cactgtctag 180
gctacaacag gattctaggt ggaggttggt catgttgctc tttttatctg atctgtgatt 240
aaagcagtaa tattttaaga tggactggga aaaacatcaa ctctgaagt tagaaataag 300
aatggtttgt aaaatccaca gctatatact gatgctggat ggtattaatc ttgtgtagtc 360
ttcaactggt tagtgtgaaa tagttctgcc acctctgacg caccactgcc aatgctgtac 420
gtactgcatt tgccccttga gccaggtgga tgt 453

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<210> 302

<211> 383

<212> DNA

<213> Homo sapiens

<400> 302

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ggacagaatg gaatctcaga ccttgatgaag gtgactctga cttctgagga agaggcccgt 60
ttgaagaaga gtgcagatac actttggggg atccaaaagg agctgcaatt ttaaagtctt 120
ctgatgtcat atcatttcac tgtctaggct acaacaggat tctagggtgga ggtgtgcat 180
gttgaccttt ttatctgac tgtgattaaa gcagtaatat tttaagatgg actgggaaaa 240
acatcaactc ctgaagttag aaataagaat ggtttgtaaa atccacagct atatcctgat 300
gctggatggt ataatcttg ttagtcttc aactggttag tgtgaaatag ttctgccacc 360
tctgacgcac cactgccaat gct 383

```

<210> 303

<211> 97

<212> DNA

<213> Homo sapiens

<400> 303

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gttgcccttg agatgatcaa agtaactggt ggctatccat ttgaagctta caaaaattgt 60
tttcttaact tagccattcc aattgtagta tttacag 97

```

<210> 304

<211> 442

<212> DNA

<213> Homo sapiens

<400> 304

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gccctagtta ttataccata ttacatcatt actctatgta attatctatg aagctatgta 60
gttatttacc cctgtattaa gtgatttttag actggttgta ttttttgagt tacagcatgt 120
gctttcaaaa tagggagact gtatggttga attaatattt ttttaaataa ctgttaacat 180
gtatagagta ggttgaaagt ttgaaagtat aaaatatact aaaagtatac agacctgtaa 240
taagaaattt atattactat agtcccatag ctgcttttac tatccacaga gaaatgcttg 300
aaaacgtgaa agttgaatag atgcaattaa aatcacggat agtttttaggc tgtttatatt 360
atcagatcac cttcttttat ctagggtgac ttggagatga tcaaagtaac tgggtggctat 420
ccatttgaag cttacaaaaa tt 442

```

<210> 305

<211> 380

<212> DNA

<213> Homo sapiens

<400> 305

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gagacgttcg cacacctggg tgccagcgcc ccagaggtcc cgggacagcc cgaggcgccg 60
cgcccgccgc cccgagctcc ccaagccttc gagagcggcg cacactcccg gtctccactc 120
gctcttccaa caccgctcgc ttttgccggc agctcgtgtc ccagagaccg agttgcccc 180
gagaccgaga cgccgcccgt gcgaaggacc aatgagagcc ccgctgctac cgccggcgcc 240
ggtggtgctg tcgctcttga tactcggctc aggccattat gctgctggat tggacctcaa 300

```

tgacacctac tctgggaagc gtgaaccatt ttctggggac cacagggctg atggatttga 360
ggttacctcc agaagggagg 380

<210> 306

<211> 133

<212> DNA

<213> Homo sapiens

<400> 306

ccagtactgc ctcctgtgct cgtgccaaaga cacagtgaat ataaccccca gctcagcctc 60
ctggccaagt tccgcagcgc ctccctgcac agtgagccac tcatgccaca caacgccacc 120
tactctgact ctt 133

<210> 307

<211> 428

<212> DNA

<213> Homo sapiens

<400> 307

tccagtactg cctcctgtgc tcgtgccaaag acacagtga tataaccccc agctcagcct 60
cctggccaag ttccgcagcg cctccctgca cagtgaagca ctcatgccac acaacgccac 120
ctatcctgac tctttccagc agcctccgtg ctctgcactc cctccctcac ccagccacgc 180
gttctcccag tccccgtgca cggccagcta ccctcactcc ccaggaagtc cttctgagcc 240
agagagtccc tatcaacact cagactttcg accagtttgt tacgaggagc cccacttgt 300
gctcggtcgc ctactatgaa ctgaacaacc gagttgggga gacattccag gcttcctccc 360
gaagtgtgct catagatggg ttcaccgacc cttcaaataa caggaacaga ttctgtcttg 420
gacttctt 428

<210> 308

<211> 497

<212> DNA

<213> Homo sapiens

<400> 308

cggctgcgag aagacgacag aaggggggaa tgtgtctggc ccttcagcag tttctcttgg 60
cagcatcagc tgggctgctt tctttgtgtg tggccccagg tgtcaaaatg acaccagctg 120
tctgtactag acaagggttac caagtgcgga attgggtta actaacagag agatttgctc 180
cattctcttt ggaataacag gacatgctgt atagatacag gcagtagggt tgctctgtac 240
ccatgtgtac agcctaccca tgcagggact gggattcgag gacttccagg cgcataagggt 300
agaaccaa at gatagggtag gagcatgtgt tctttagggc cttgtaaggc tgtttccttt 360
tgcatctgga actgactata taattgtctt caatgaagac taattcaatt ttgcatatag 420
aggagccaaa gagagatttc agctctgtat ttgtggtatc agtttgga aaataaatct 480
gatactccat ttgatta 497

<210> 309

<211> 356

<212> DNA

<213> Homo sapiens

<400> 309

gggaatgtgt ctggcccttc agcagtttct cttggcagca tcagctgggc tgctttcttt 60
gtgtgtggcc ccaggtgtca aaatgacacc agctgtctgt actagacaag gttaccaagt 120
gcggaatttg ttaataactaa cagagagatt tgctccattc tctttggaat aacaggacat 180
gctgtataga tacaggcagt aggtttgtctc tgtacccatg tgtacagcct acccatgcag 240
ggactgggat tcgaggactt ccaggcgcac agggtagaac caaatgatag ggtaggagca 300
tgtgttcttt aaggccttgt aaggctgttt ccttttgcac ctggaactga ctatat 356

<210> 310

<211> 348

<212> DNA

<213> Homo sapiens

<400> 310
 gggaatgtgt ctggcccttc agcagtttct cttggcagca tcagctgggc tgctttcttt 60
 gtgtgtggcc ccaggtgtca aaatgacacc agctgtctgt actagacaag gttaccaagt 120
 gcggaattgg ttaataactaa cagagagatt tgctccattc tctttggaat aacaggacat 180
 gctgtataga tacaggcagt aggtttgctc tgtacccatg tgtacagcct acccatgcag 240
 ggactgggat tgcaggactt ccaggcgcat agggtagaac caaatgatag ggtaggagca 300
 tgtgttcttt agggccttgt aaggctgttt ccttttgcac ctggaact 348

<210> 311
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 311
 aagttgttgt ctgacacaca ctgctgttgt tcccctggat ttagtgaaat gccgtatgca 60
 ggtggacccc caaaagtaca agggcatatt taacggattc tcagttacac ttaaagagga 120
 tgggtgtcgt ggtttggcta aaggatgggc tccgacttcc cttggctact ccatgcaggg 180
 actctgcaag tttggctttt atgaagtctt taaagtcttg tatagcaata tgcttggaga 240
 ggagaatact tatctctggc gcacatcact atatttggct gcctctgcca gtgctgaatt 300
 ctttgcctgac attgccctgg ctccctatgga agctgtct 337

<210> 312
 <211> 252
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 144
 <223> n = A,T,C or G

<400> 312
 agcccaagcc ctcagtggaa cctgtcaaga gcatcagcag catggagctg aagaccgagc 60
 cctttgatga cttcctgttc ccagtgacac ttcagagagc tggtagttag tagcatgttg 120
 agccaggcct gggctctgtg ctctttcttc tttctcctta gtcttctcat agcattaaact 180
 aatctatttg gttcattatt ggaattaacc tgggtgctgga tattttcaaa ttgtatctag 240
 tgcagctgat tt 252

<210> 313
 <211> 51
 <212> DNA
 <213> Homo sapiens

<400> 313
 actcccagct gcactgggta cacgtcttcc ttcgtcttca cctaccccga g 51

<210> 314
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 314
 atggccacag agctggagcc cctgtgcact ccggtgggtca cctgtactcc cagctgcact 60
 gcttacacgt cttccttcgt cttcacctac cccgaggctg actccttccc cagctgtgca 120
 gctgcccacc gcaagggcag cagcagcaat gagccttccct ctgactcgct cagctcacc 180
 acgctgtgtg ccctgtgagg gggcagggaa ggggaggcag ccggcaccga caagtgccac 240
 tgcccagagc ggtgcattac agagaggaga aacacatctt ccctagaggg ttcctgtaga 300
 cctagggagg accttatctg tgcgtgaaac acaccaggct gtgggccc 348

<210> 315
 <211> 507
 <212> DNA

<213> Homo sapiens

<400> 315

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ccggtggtca cctgtactcc cagctgcact gcttacacgt cttccttcgt cttcacctac 60
cccgaggctg actccttccc cagctgtgca gctgcccacc gcaagggcag cagcagcaat 120
gagccttcct ctgactcgct cagctcacc cagctgctgg ccctgtgagg gggcagggaa 180
ggggaggcag ccggcaccga caagtgccac tgcccagact ggtgcattac agagaggaga 240
aacacatctt ccctagaggg ttctgtaga cctaggagg accttatctg tgcgtgaaac 300
acaccaggct gtgggcctca aggacttgaa agcatccatg tgtggactca agtccttacc 360
tcttcgggag atgtagcaaa acgcatggag tgtgtattgt tcccagtgac acttcagaga 420
gctggtagtt agtagcatgt tgagccaggc ctgggtctgt gtctcttttc tctttctcct 480
tagtcttctc atagcattaa ctaatct 507
```

<210> 316

<211> 239

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 223

<223> n = A,T,C or G

<400> 316

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agactccaag ccctactggg aggcacggag ggtggcgagg caggctcagc tggaagctca 60
gaaagccacg caggacttcc agagggccac agaggtgctc cgcccgcca aggagacca 120
ctccctggcc gagcagcggc tgctggagga tgacaagcgg cagttcgact ccgcctggca 180
ggagatgctg aatcacgcca ctcagagggg catggaggcg ganagaccaa gaccaggag 239
```

<210> 317

<211> 313

<212> DNA

<213> Homo sapiens

<400> 317

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catcagtgat agggatgatt cacaaacaca aagctggtct tttcaaaatg ggaagaaaaa 60
agatgcaatt gatcccttac tattcaagta taaagtgcac cccactaaaa aagaattaca 120
tgagtctgct attgttaaa caacacaaat cagccggaga aaacacctat tttctcgtga 180
taactaaaag ctttttctga agcaacactg ggaaccacaa gatggagtca ttaaaataaa 240
ggcatcatct ctttcaacgg ataaaatagc cgaacaagat tttttcttat ttcttcctcg 300
atgattccac ccc 313
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<210> 318

<211> 574

<212> DNA

<213> Homo sapiens

<400> 318

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aaataacatc aacagaacag cttcactttg ggccaaacat ttgaaaaact ttttataaaa 60
aattgtttga tttttcttaa tgtctgctct gagccttaaa acacagattg aagaagaaaa 120
gaaagaaaaa acttaaatat ttatttctat gctttgttgc ctctgagaat aatgacaatt 180
tatgaatttg tgtttcaaat tgataaaata tttaggtaca aataacaaga ctaataatat 240
tttcttattt aaaaaagca tgggaagatt tttattttatc aaaaatata ggaagttag 300
acaaaatgga tataaatgaa aattaccatg ttgtaaaacc ttgaaaatca gattctaact 360
ggatttgtat gcaactaagt atttttctga acacctatgc aggtcttatt tacagttagt 420
actaaggga cacaacaaga attacacaac gttttcctca agaaaatggg acaaacaca 480
accgaggagc gtatacagtt gaaaacattt ttgttttgat tggaaggcag attattttat 540
attagtatta aaaatcaaac cctatgtttc tttc 574
```

<210> 319

<211> 518

<212> DNA

<213> Homo sapiens

<400> 319

```

gaagggaaat aacatcaaca gaacaacttc actttgggcc aaacatttga aaaacttttt 60
ataaaaaaatt gtttgatatt tcttaatgtc tgctctgagc cttaaaaacac agattgaaga 120
agaaaagaaa gaaaaaactt aaatatattt ttctatgctt tggtgcctct gagaataatg 180
acaatttatg aattttgtgt tcaaattgat aaaatattta ggtacaaata acaagactaa 240
taatattttc ttatttaaaa aaagcatggg aagattttta tttatcaaaa tatagaggaa 300
atgtagacaa aatggatata aatgaaaatt accatgttgt aaaaccttga aaatcagatt 360
ctaactggat ttgtatgcaa ctaagtattt ttctgaacac ctatgcaggc cttattttaca 420
gtagttacta agggaaacaa caaagaatta cacaacgttt tcctcaagaa aatggtacaa 480
aacacaaccg aggagcgtat acagttgaaa acattttt 518

```

<210> 320

<211> 353

<212> DNA

<213> Homo sapiens

<400> 320

```

aaataacatc aacagaacaa cttcactttg ggccaaacat ttaaaaaact ttttataaaa 60
aaatgtttga tatttcttaa tgtctgctct gagccttaca acacagattg aagaagaaaa 120
gaaagaacaa acttagatat ttatttctat gctttgttgc ctctgagaat aatgacaatt 180
tatgaatttg agtttcaaat tgataaaata tttaggtact aataacaaga ctaataatat 240
tttcttattt ataaaaagca tggaagattt tttattttat aaaatatata ggaagtgtag 300
acaaaatgga tataaatgaa aattaccatg ttgtaaaacc ttgaaatca gag 353

```

<210> 321

<211> 401

<212> DNA

<213> Homo sapiens

<400> 321

```

gacctgcaca cagagactcc ctctctgggt cctggcacca tggccccctg aagagctggc 60
cctggtcacc ctctctctgg gggcttctct gcagcacatc cagcgagctc gagggaccaa 120
tgtgggccgg gagtgtctgc tggagtactt caagggagcc attcccctta gaaagctgaa 180
gacgtgtgtac cagacatctg aggactgctc cagggatgcc atcgtttttg taactgtgca 240
gggcagggcc atctgttcgg accccaacaa caagagagtg aagaatgcag ttaaatacct 300
gcaaagcctt gagaggtctt gaagcctcct caccacagac tcctgactgt ctcccgggac 360
tacctgggac ctccaccggt ggtgttcacc gccccaccc t 401

```

<210> 322

<211> 547

<212> DNA

<213> Homo sapiens

<400> 322

```

gacctgcaca cagagactcc ctctctgggt cctggcacca tggccccact gaagatgctg 60
gccctggtca ccctcctcct gggggtctct ctgcagcaca tccacgcagc tcgagggacc 120
aatgtgggcc gggagtgtct cctggagtac ttcaaggag ccattcccct tagaaagctg 180
aagacgtggt accagacatc tgaggactgc tccagggatg ccatcgtttt tgtaactgtg 240
cagggcaggg ccatctgttc ggacccaac aacaagagag tgaagaatgc agttaaatac 300
ctgcaaagcc ttgagaggtc ttgaagcctc ctacccccag actcctgact gtctcccggg 360
actacctggg acctccaccg ttggtgttca ccgccccac cctgagcgcc tgggtccagg 420
ggaggccttc caggacgaa gaagagccac agtgaggag atcccatccc cttgtctgaa 480
ctggagccat gggcacaaag ggcccagatt aaagtcttta tcctcaaaaa aaaaaaaaaa 540
aaaaaa 547

```

<210> 323

<211> 283

<212> DNA

<213> Homo sapiens

<400> 323
 ctgagcagag ggacctgcac acagagactc cctcctgggc tcctggcacc atggcccccac 60
 tgaagatgct ggccctggtc accctcctcc tgggggcttc tctgcagcac atccacgcag 120
 ctcgagggac caatgtgggc cgggagtgtc gcctggagta cttcaaggga gccattcccc 180
 ttagaaagct gaagacgtgg taccagacat ctgaggactg ctccagggat gccatcggtt 240
 ttgtaactgt gcagggcagg gccatctgtt cggaccccaa caa 283

<210> 324
 <211> 160
 <212> DNA
 <213> Homo sapiens

<400> 324
 gcggtgacga cggggaccat ttaccatca ccacccaccc tgagagcaac cagggcatcc 60
 tgacaaccag gaagggtttg gattttgagg ccaaaaacca gcacaccctg tacgttgaag 120
 tgaccaacga ggcccctttt gtgtgaagc tcccaacctc 160

<210> 325
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 325
 tttttttttg gggccaattc ttttaattta ctaaattagg aacgcagctt ttacagaaca 60
 ataaacacaa gggacggggc caccacagga tctaacagct ttccaggac ctatgttgca 120
 agctcaaaag taatccacta acgaaccaag tcaaaactcca gtttttaata aaaaggggct 180
 gggggagggt gtcaaaacccc ttccaatata aatccccaat ccgaggggcca ccaaatgaaa 240
 aagcaccaaa aatggaagga aaactttcaa aaattctgca aaaaatatgc cccctttttt 300

<210> 326
 <211> 394
 <212> DNA
 <213> Homo sapiens

<400> 326
 gtctattctt ttattttact aaattaggaa cgcagcattt acagaacaat aaacacaagt 60
 gacgtggcca ccccaggatc taacagctct tcagtgcagc atgttgcaag ctcagaagta 120
 atccactaac gaaccaagtc agactccagt tcttcatcaa aagggtgctg tggagggtgt 180
 cagacgcctt ccaatataga tcccacatcc gatggccagc aaatgagaga gcagcagaga 240
 tgggaaggaaa acttccagaa attctgcaga gaatatgcc cctttcttca tgacgctcgt 300
 gttcccccat gctgaagggt gccgtgcgct tccggtgttt aaagaagaac ccttgggggg 360
 aatatttccc ggccatttga ccaatcccat tcca 394

<210> 327
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 327
 gtctattctt ttattttact aaattaggaa cgcagcattt acagaacaaa taaacacaag 60
 tgacgtggcc acccaggat ctaacagctc ttcagtgcagc tatgttgcaa gctcagaagt 120
 aatccactaa cgaaccaagt cagactccag ttcttcatca aaagggtgctg gtggagggtg 180
 tcagacgcct tccaatatag atcccaatc cgatggccag caaatgagag agcagcagag 240
 atggaaggaa aactttcaga aattctgcag agaatatgcc ccctttcttc atgacgctcg 300
 tgttcctcat gctgagggtg ccgtgcgctt ccggtgttta aagaagaacc cttgggggga 360
 atatttccgg ccgacttgac caatcccata tccatctgat ttttcttcca gaagctttca 420
 cttccttctt cttcaatat cactccctca actgtgactg ttttccccc aatgctatgg 480
 tttctgttca aaacccggtt ggtctgtgtg ggtcgctact ccgt 524

<210> 328
 <211> 55

<400>	332							
g t t g t g t t g a	g a t c c a g t g c	a g t t g t g a t t	t c t g t g g a t c	c c a g c t t g g t	t c c a g g a a t t	60		
t g t g t g a t t	g g t t t a a a t c	c a g t t t t c a a	t c t c g a c a g	c t g g g c t g g a	a c g t g a a c t c	120		
a t a g c t g a a	c c t g t c t g a c	c c g g t c a c g t	t c t t g g a t c c	t c a g a a c t c t	t t g c t c t g t	180		
c g g g g t g g g g	g t g g g a a c t c	t c g t g a g g a g	c g c c a g c t g t	g t a a a t g c c a	c g a c t c c g t a	240		
a t t c t t a t t c	g g t g g g a c c t	t g c t t c c c t c	t g g g a g c t g g	c t c g t t t t g t	t g g t g t c t a a	300		
c c t t t c g c c g	a a t c g t t a a a	g				321		

<210> 333
 <211> 344
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 265, 267, 272, 337
 <223> n = A,T,C or G

<400> 333
 gtcctatttc tcattttgtt gataatttct gcatttaatg gtctgtgctt taaatggtaa 60
 cgctacggcc ccaggtcact gcgaggcact taccatgtag atacgggctc aaaagtcacc 120
 tctcagagac ctacgtcatc cactcaggaa ttcgcgccctc tcatacttgc ctgtctcatt 180
 ttatcttctc tctagcagct gtctgaaatt ggttcgtctg ttttcttggt tatggtattc 240
 tcaagccctt gacagaccgg ctagnngngt tntcccgtgc atcttcagcc tggcacatta 300
 tggacactta aatactacgt attgatctaa tattganggg ttaa 344

<210> 334
 <211> 405
 <212> DNA
 <213> Homo sapiens

<400> 334
 ggcacgaggg atgaagggtg ctgctcattt tcatttagatg tatgtgaagg cacagtgaaa 60
 atggaaatgt tcttgagct acttcctcaa aatgtatcct tagtcacctc agtgcaacag 120
 ctgggagggg gccgtgttaa gatttttttt gctacaaaaga ggaggtggca atggtagatc 180
 cacccttatg cttctcagtt tagcataacc tcttatggat tttcatcaaa ttcagcgtgt 240
 tggctactgg aaagagcctt ttccttctcc ttttcttact ctccccctcat ggggttcccc 300
 tcttaaagga gaggagcttt taatttacac ttaccacctc atttgctttt ttggaggcca 360
 tgccataata gcgggactac cgagttaatc tcctttttac aaaag 405

<210> 335
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 335
 ggatgaacta ttcagatgct atcgtttggc taaaagaaca tgatgtaaag aaagaagatg 60
 gaacttttcta tgaatttgga gaagatatcc cagaagctcc tgagagactg atgacagaca 120
 ccattaatga accaatcttg ctgtgtcgat ttctgttgga gatcaagtcc ttctacatgc 180
 agcgatgtcc tgaggattcc cgtcttactg aatctgtcga cgtgttg 227

<210> 336
 <211> 521
 <212> DNA
 <213> Homo sapiens

<400> 336
 tcgaattcgg atgaactatt cagatgctat cgtttggcta aaagaacatg atgtaaagaa 60
 agaagatgga actttctatg aatttgaga agatatccca gaagctcctg agagactgat 120
 gacagacacc ataatgaac caatcttgct gtgtcgattt cctgtggaga tcaagtcctt 180
 ctacatgcag cgatgtcctg aggattcccg tcttactgaa tctgtcgacg tgttgatgcc 240
 caatgttggg gagattgtgg gaggctcaat gcgtatcttt gatagtgaag aaatactggc 300
 aggttataaa agggaaggga ttgacccac tccctattac tggatatacg atcagagaaa 360
 atacggtaca tgtcccatg gaggatatgg cttgggcttg gaacgattct taacgtggat 420
 tctgaatagg tatcacatcc gagacgtgtg cttataccct cgatttgtcc agcgttgac 480
 gccataacca ttttctccag aagcgtggag gaaagattat g 521

<210> 337
 <211> 325
 <212> DNA

<213> Homo sapiens

<400> 337

```

ggacttttccc gatcgccagg caggagtttc tctcgggtgac tactatcgct gtcattgtctg 60
gtcgtggcaa gcaaggaggc aaggcccgcg ccaaggccaa gtcgcgctcg tcccgcgcgg 120
gccttcagtt cccggtaggg cgagtgcata gcttgctgcg caaaggcaac tacgcggagc 180
gagtgggggc cggcgcgccc gtctacatgg ctgcgttcct cgagtatctg accgctgaga 240
tcctggagct ggcgggcaac gcggctcggg acaacaagaa gacgcgcata atccctcgtc 300
acctccagct ggccatccgc aacga                                     325

```

<210> 338

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 264

<223> n = A,T,C or G

<400> 338

```

cgttgctgtc ggttttagga aacctggcat ggtgctttca ggtctggggc ttttagagcc 60
ccccgtgtgg cttacaaatt ctacagcata cagagcaggc cacgctcagg cccggcatgc 120
gggccaccaa gttctggaaa ccacgtgggtg tccctgcgaa tggggcgatc aagtccagag 180
ccggggcact ttcagagttt gaaggtaact gagagcagat ggtcctccat ttcaactcca 240
gaagtggggc tctgggaggg atgntctaac cctccctggc atgtcacaac caggctctgg 300
ctggaggatc cctccatccg gctcctgtca tcccctacac tttggcctag caagagggtg 360
aataaccact tgtgtgctca ttactgttgg gaggaacaaa g                                     401

```

<210> 339

<211> 460

<212> DNA

<213> Homo sapiens

<400> 339

```

catgcggggc accaagtctt ggaaaccacg tgggtgtccct gcgaatgggg cgatcaagtc 60
cagagccggg gcactttcag agtttgaagg taactgagag cagatgggtcc tccatttcaa 120
ctccagaagt ggggctcttg gagggatggt ctagccctcc ctggcatgtc agaaccaggc 180
tctgcctgga ggatccctcc atccggctcc tgtcatcccc tacacttttg ccaagcaaga 240
agtggtagaa ccacttggct gctccttcc tctggaggac acacagtctc agtccagatg 300
ccttctgtgc tttctggccc tttctggacc agatcctact cttcctttct aaatctgaga 360
tctccctcca gggaaatccg ctgcagagga cagagctggc tgtcttcccc caccctaac 420
ctggcttatt cccaactgct ctgcccactg tgaaaccact                                     460

```

<210> 340

<211> 496

<212> DNA

<213> Homo sapiens

<400> 340

```

tttttttttt tttttttttt tttttgggat tcttaaatat agatgtattt ttttcatctc 60
atctccggac acactccaat cacaccctc ctgccctccc ctctcaactg caaaccaagc 120
ggtgcagaca cagcacagca cacatgaggg gccctccctt tcaccaaagc tgaaggcagg 180
gcacagtttg gggatggaag agcctcgagg taaatgtggg ggttctagaa cccagtgacc 240
tcagtctctg atcatgggaa agggatcagt atgcagtaac gtggtaagg tccagatcta 300
gaagccagga cctagaacct agtggtttca cagtgggcag agcagttggg aataagccag 360
gttaggggtg ggggaagaca gccagctctg tctctgcag gcggattccc tggagggaga 420
tctcagattt agaaaaggag agtaggatct ggtccagaaa gggccagaaa gacaggaagg 480
catctggact gagact                                     496

```

<210> 341

<211> 283

<212> DNA

<213> Homo sapiens

<400> 341

```

tttttttttt tttttttttt ttttttttag gatttgaata catttattgt gacaagaatg 60
ctgttataaa tattcataag caaaggccat ctttttatct aggaattgtc aaagagaaga 120
ttccaaattg gaaggataga tcttttgtaa aatctgccac caattcctgc ttgagaata 180
agcacctatt gtaaaatttc tactaacatt ataaatggc acagcacatg ccacttgata 240
caatccaaac tttgaaatgt ttgacttctc agtgggctgt ccc 283

```

<210> 342

<211> 335

<212> DNA

<213> Homo sapiens

<400> 342

```

tgtcgggcag caggcgagc ccagcctcga aatgcagaac gacgccggcg agttcgtgga 60
cctgtacgtg ccgcggaaat gctccgctag caatcgcatc atcggtgcca aggaccacgc 120
atccatccag atgaacgtgg ccgagggtga caaggtcaca ggcagggtta atggccagtt 180
taaaacttat gctatctgcg gggccattcg taggatgggt gagtcagatg attccattct 240
ccgattggcc aaggccgatg gcatcgtctc aaagaacttt tgactggaga gaatcacaga 300
tgtggaatat ttgtcataaa taaataatga aaacc 335

```

<210> 343

<211> 75

<212> DNA

<213> Homo sapiens

<400> 343

```

gggtagagtt cttaaatcga gatctggagg tagatggacg ctttgtaacc ctccagatct 60
gggacactgc agggc 75

```

<210> 344

<211> 611

<212> DNA

<213> Homo sapiens

<400> 344

```

gccggggggc agcggcgggc gcgagcgcca gctgtcagcg caccgaggtc caagccgcac 60
ttgctgcccc attgaggacg aggaggcagc agggagcagc acggtgactc taaggagccg 120
gattccccgc acgcagagct gacctgcctg gcacccgcgg ccctctcctg ttcccttccc 180
attgtgttgg caccctaaaa agaaagaata aaacaacaac agggaaaaaa ggaaaatatt 240
taaattgtga caaaaaccca ctgggttctc ttgggttaca actccttccc ttctgggtgct 300
acaaaaatga gtgggaaatc cctgctctta aagggtcattc tcttgggtga tgggtggagt 360
gggaaaagt cgttatgaa ccgttacgta accaacaat ttgactccca ggcttttcac 420
accatagggg tagagttctt aaatcgagat ctggaggtag atggacgctt tgtaaccctc 480
cagatctggg aactgcagg gcaggaacgt ttcaagagcc ttaggacacc cttctacagg 540
ggagcagact gctgcctctt gaccttcagc gtggatgatc ggcagagctt cgagaatctt 600
ggttaactggc a 611

```

<210> 345

<211> 441

<212> DNA

<213> Homo sapiens

<400> 345

```

ggccttttga agcctcaccg gcgatgcaag gatagtcac aacaggggccc ggttgagtg 60
ccagagccac cggctgactg tggaggaccc ggtcactgtg gactacatca cccgctacat 120
cgccagtctg aagcagcgtt atacgcatag cactgggcgc aggcgtttgg catctctgcc 180
ctcatcgtgg gtttctactt tgatggcact cctaggctct atcagactga cccctctgtc 240
acataccatg cctggaaggc caatgccata cgccgggggtg ccaactcagt gcgtgagttc 300
ctggagaaga actatactga cgaagccatt gtaacatatg atctgaccat taagctggtg 360

```

atcaacgcac tcctggaagt gggtcactca ggtggcaaaa acattgaact tgctgtcatg 420
 aggcgagatc aatccctcaa g 441

<210> 346

<211> 323

<212> DNA

<213> Homo sapiens

<400> 346

ggcctttgca ggcctcaccg ccgatgcaag gatagtcac aacagggccc gggaggagtg 60
 ccagagccac cggctgactg tggaggaccc ggtcactgtg gagtacatca cccgctacat 120
 cgccagtctg aagcagcgtt atacgcacag caatgggcgc aggcgtttgg catctctgcc 180
 ctcatcgtgg gtttcgactt tgatggcact cctaggctct atcagactga cccctcgggc 240
 acataccatg cctggaaggc caatgccata tgccgggggtg ccaagtcagt gcgtgagttc 300
 ctggagaaga actatactga cga 323

<210> 347

<211> 567

<212> DNA

<213> Homo sapiens

<400> 347

ccagcggcct cttcccttcc ctggtgctgc ttgccctggg aactctggca ccttgggctg 60
 tgggaaggctc tggaaagtcc ttcaaagctg gagtctgtcc tcctaagaaa tctgcccagt 120
 gccttagata caagaaacct gagtgccaga gtgactggca gtgtccaggg aagaagaaat 180
 gttgtcttga cacttgtggc atcaaagtcc tggatcctgt tgacacccca aaccacaaca 240
 ggaggaagcc tgggaagtgc ccagtgactt atggccaatg tttgatgctt aaccccccca 300
 atttctgtga gatggatggc cagtgcgaagc gtgacttgaa gtgttgcagt ggcatgtgtg 360
 ggaaatcctg cgtttccctt gtgaaagctt gattcctgcc atatggagga ggctctggag 420
 tcctgctctg tgtggtccag gtcctttcca ccctgagact tggctccacc actgatatcc 480
 tcctttgggg aaagccttgg cacacagcag gctttcaaga agtgccagtt gatcaatgaa 540
 taaataaacg agcctatttc tctttgc 567

<210> 348

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 48

<223> n = A,T,C or G

<400> 348

atgaagtcca gcggcctctt ccccttccctg gtgctgcttg ccctgggnac tctggcacct 60
 tgggctgtgg aaggctctgg aaagtccttc aaagctggag tctgtcctcc taagaaatct 120
 gccagtgcc ttagatacaa gaaacctgag tgccagagt actggcagt tccagggaag 180
 aagagatgtt gtcctgacac ttgtggcatc aaatgcctgg atcctgttga caccacaaac 240
 ccaacaagga ggaagcctgg gaagtgccca gtgacttatg gccaatgttt gatgcttaac 300
 cccccaatt tctg 314

<210> 349

<211> 611

<212> DNA

<213> Homo sapiens

<400> 349

ggctctgtc tgcagcacac ccgtgggtga cccctcacc cagaagcagc agtggcagct 60
 tgggaaatgt gaggaaggga aggaggagga gacgggagga aggagagaga ggagaaggga 120
 ggcaggggag gggcagcaga accaaggcaa atatttcagc tgggctatac ccctctcccc 180
 atccctgtta tagaagctta gagagccagc cagcaatgga accttctggt tcctgcgcca 240
 atcgccacca gtatcaattg tgtgagcttg ggtgcgagt cagcgtgag tgagtacgga 300

```

gagtatatat agatctctat ctcttagcaa aggtgaatgc cagatgtaaa tggcgcctct 360
gggcaaaagg ggcttgattt ttgcacattt tataaaaact tgagagaatg agatttctgc 420
ttgtatatat ctaaaaagag gaaggagccc aaaccatcct ctccttacca ctcccatccc 480
tgtgagccct accttaccct tctgccccta gccaaaggag gtgaatttat agatctaact 540
ttcataggca aaacaaaagc ttcgagctgt tgcgtgtgtg agtctgttgt gtggatgtgc 600
gtgtgtgggc c 611

```

<210> 350

<211> 370

<212> DNA

<213> Homo sapiens

<400> 350

```

tggctggatg ggcttggaact gtggtcctga aagcagcaag aagtatgctg aggctgtcac 60
tcgggctaag cagatttgtt ggaatgggtc tgtgggggta tttgaatggg aagcttttgc 120
ccggggaacc aaagctctca tggatgaggt ggtgaaagcc acttctaggg gctgcatcac 180
catcataggt ggtggagaca ctgccacttg ctgtgccaaa tggaacacgg aggataaagt 240
cagccatgtg agcactgggg gtggtgccag tttggagctc ctggaaggta aagtccttcc 300
tgggggtgat gctctcagca atatttagta ctttcctgcc ttttagttcc tgtgcacagc 360
ccctaagtca 370

```

<210> 351

<211> 177

<212> DNA

<213> Homo sapiens

<400> 351

```

gggctgcatc accatcatag gtggtggaga cactgccact tgctgtgcca aatggaacac 60
ggaggataaa gtcagccatg tgagcactgg ggggtgtgcc agtttgagac tcctggaagg 120
gaaagtcctt cctgggggtg atgctctcag caatatattag tactttcctg cctttta 177

```

<210> 352

<211> 204

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 53, 55, 76, 86, 137

<223> n = A,T,C or G

<400> 352

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atggccttta ccttccttaa ggtgctcaac aacatggaga ttgggcactt tcncnggttg 60
atgaagaagg aagccnagat ttgtcnaaga cctaattgcc aaaagctgag aagaatggtg 120
tgaagattac cttgccntgt tgacttgta ctgctgacaa gtttgatgag aatgcccaag 180
actggcccag ccactggtgg ctcc 204

```

<210> 353

<211> 489

<212> DNA

<213> Homo sapiens

<400> 353

```

cttttacctt ccttaagggtg ctccaggacat ggagattggc acttctctgt ttgatgaaga 60
gggagccaag attgtcaaag acctaattgc caaagctgag aagaatggtg tgaagattac 120
cttgccctgt gactttgtca ctgctgacaa gtttgatgag aatgcccaag ctggccaagc 180
cactgtggct tctggcatac ctgctggctg gatgggcttg gactgtggtc ctgaaagcag 240
caagaagtat gctgaggctg tcaactcgggc taagcagatt gtgtggaatg gtcctgtggg 300
ggtatttgaa tgggaagctt ttgccgggg aaccaaagct ctcatggatg aggtggtgaa 360
agccacttct aggggctgca tcaccatcat aggtggtgga gacactgcca cttgctgtgc 420
caaattgaac acggaggata aagtcagcca tgtgagcact ggggggtggtg ccagtttgga 480
gctcctgga 489

```

<210> 354
 <211> 885
 <212> DNA
 <213> Homo sapiens

<400> 354
 tttttttttt tcacggtttc aatggacact tttattgttt acttaatgga tcatcaattt 60
 tgtctcacta cctacaaatg gaatttcac ttttttccat gctgagtagt gaaacagtga 120
 caaagctaata cataataacc tacatcaaaa gagaactaag ctaacactgc tcacttttctt 180
 ttttaacaggc aaaatataaa tatatgcact ctaaaatgca caatgggttta gtcactaaaa 240
 aattcaaatg ggatcttgaa gaatgtatgc aaatccaggg tgcagtgaat atgagctgag 300
 atgctgtgca actgtttaag ggttcctggc actgcatctc ttggccacta gctgaatctt 360
 gacatggaag gttttagcta atgcccaggg gaaatgcaaa aaatgctaatt ttgacttagg 420
 gcctgtgcac aggaactaaa aggcaggaaa gtactaaata ttgctgagag catccacccc 480
 aggaaggact ttaccttcca ggagctccaa actggcacca ccccagtgct tcacatggct 540
 gactttatcc tccgtgttcc atttggcaca gcaagtggca gtgtctccac cacctatgat 600
 ggtgatgcag cccctaaaaa gtggctttca ccacctcatc catgagagct ttgggtcccc 660
 gggcaaaagc ttcccattca aataccccca caggaccatt ccacacaatc tgcttaacct 720
 gagtgacagc ctcagcatac ttcttgctgg ttccaggacc acagtccaag ccccatccca 780
 ccagcaggtg tgcaagaagg cccagtgggc ttgccagtct tggcatttct catcaacttg 840
 tcagcagtga caaagtcaac cggaaggaa tcttcacacc atctt 885

<210> 355
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 355
 cggctgacag aagacgacag aaggggggag tgggtgctat accttgactt catttatatg 60
 aatttccact ttattaaata atagaaaaga aaatcccggg gcttgacagta gagtgatagg 120
 acattctatg cttacagaaa atatagccat gattgaaatc aaatagtaaa ggctgttctg 180
 gctttttatc ttcttagctc atcttaaata agcagtacac ttggatgcag tgcgtctgaa 240
 gtgctaataca gttgtaacaa tagcacaat cgaacttagg atttgtttct tctcttctgt 300
 gtttcgattt ttgatcaatt cttaaatttt ggaagcctat aatacagttt tctattcttg 360
 gagataaaaa tttaatggat cactgatatt ttagtcattc tgcttctcat ctaaatattt 420
 ccatattctg tatt 434

<210> 356
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 356
 gggagtgggt gctatacctt gacttcattt atatgaattt ccactttatt aaataataga 60
 aaagaaaatc ccggtgcttg cagtagagt ataggacatt ctatgcttac agaaaatata 120
 gccatgattg aaatcaaata gtaaaggctg ttctggcttt ttatcttctt agctcatctt 180
 aaataagcag tactattgga tgcagtgcgt ctgaagtgt aatcagttgt aacaatagca 240
 caaatcgaac ttaggatttg cttcttctct tctgtgtgct gatttttgat caattcttta 300
 attttgaag cctataat 318

<210> 357
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 357
 cggctgacag aagacaacag aagggggctc ccgctcggga tctcgtccg gatctcgtc 60
 cgggtcccgc agtgggtccc ggagaggaag ctttgacgcc acaaggaatt cttcctactc 120
 ttattcctac tcatttagca gtagttctat tgggcactat tagtcagttg ggagtgggtg 180
 ctataccttg acttcattta tatgaatttc cactttatta aataatagaa a 231

<210> 358
 <211> 446
 <212> DNA
 <213> Homo sapiens

```
<400> 358
atttgctgta tgccgagaat ggaaaaattg gaccaccta actggatatac agaaaggagg 60
agaagcaaat catgattgac atatttcacc cttcagtttt tgtaaatgga gacgagcagg 120
aagtcgatta tgatcccgaa actacctgtt acattagggt gtacaatgtg tatgtgagaa 180
tgaacggaag tgagatccag tataaaatac tcacgcagaa ggaagatgat tgtgacgaga 240
ttcagtgcca gtttagcgatt ccagtatcct cactgaattc tcagtactgt gtttcagcag 300
aaggagtctt acatgtgtgg ggtgttacia ctgaaaagtc aaaagaagtt tgtattacca 360
ttttcaatag cagtataaaa ggttctcttt ggattccagt tggtgctgct ttactactct 420
ttctagtgtt tagcctggta ttcatac 446
```

<210> 359
 <211> 209
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 19, 185, 193
 <223> n = A,T,C or G

```
<400> 359
gagaatttgc tgtatgccng agatggaaaa attggaccac ctaaaactgga tatcagaaaag 60
gaggagaagc aaatcatgat tgacatatatt cacccttcaa gtttttgtaa atggagacga 120
gcaggaaagtc gattatgatc ccgaaactac ctgttacatt aggggtgtaca atgtgtatgt 180
gagantgaac ggnagtgaga tccagtata 209
```

<210> 360
 <211> 521
 <212> DNA
 <213> Homo sapiens

```
<400> 360
tgctgtcggg gactactgaa gaaatattcc tgacgtggtc ccgggcagcc atctgactcc 60
aatagagaga gagagttcct cacttttaag tagtaaccag tctgaacctg gcagcatcgc 120
tttaaaactcg tatcactcca gaaattgttc tgagagtgat cactccagaa atgggtttga 180
tactgattcc agctgtctgg aatcacatag ctcttatct gactcagaat ttccccaaa 240
taataaagggt gaaataaaaa cagaaggaca agagctcata accgtaataa aagccccac 300
ctcctttggg tatgataaac cacatgtgct agtggatcta cttgtggatg atagcggtaa 360
agagtccttg attggttata gaccaacaga agattccaaa gaattttcat gagatcagct 420
aagttgcacc aactttgaag tctgattttc ctggacagtt ttctgcttta atttcatgaa 480
aagattatga tctcagaaat tgtatcttag ttggtatcaa c 521
```

<210> 361
 <211> 522
 <212> DNA
 <213> Homo sapiens

```
<400> 361
tgccctcga ggccaagaat tcggcactag gggagaggag cttgaatttc tgacacacat 60
aacatgtaaa aagtatattg catttcataa ggatttgagg tggggttaac gcaagggttag 120
tctgttttaa aaaatgtttt cattaacgag cacataactg gtggttcta atgggaatac 180
ttgaccagg cagaaactag aaaagtagca agtaggaaac ttccatttct ctcccctaaa 240
caaccctta aggcactgtg agctggagac aggagagggt ttgccaacc tttgttcata 300
tactcgggtga cgatgtagat gggctcctca gacaccactg catagagctg gaccagcttg 360
tcgtgcttca gcttcttcat gatctgcgct tcctcaagga atgattcggg ggacattgtg 420
cctggtttaa gagtctttat ggctactttt gtgtttccat tccaggtagg tacaacatc 480
ccagaatatg aagtcacaacc aaagatcttc ttttgatgga aa 522
```


<210> 362
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 331, 372
 <223> n = A,T,C or G

<400> 362
 ttaatgagtt anaaatctta atatagccat cttagccata accacaaata aactcatttt 60
 ttctgttaaa atacttgaca gagtccttgc aattgaatgt ctttgttcaa caaaaactgt 120
 attaagtgtt ttaaatttaa aatctaactt tatgcaaata gctggtgggc aaaacctttt 180
 tccatcaaaa gaagatcttt ggtttgactt catattctgg gatgtttgta ggtacctgga 240
 atggaacac aaaagtagcc ataaagactc ttaaaccagg cacaatgtcc cccgaatcat 300
 tccttgagga agcgagatc atgaagaagc ngaagcacga caagctgggc cagctctatg 360
 gcagtgggtg cngaggagcc catctacatc gtcaccgagt atatgaacaa aggttgggca 420
 a 421

<210> 363
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 363
 cagaaggggt ttccgaatgt tttagttagc cttttggtgg agccgccagc tgacaggaca 60
 tcttacaaga gaatttgcac atctctggaa gcttagcaat cttattgcac actgttcgct 120
 ggaagctttt tgaagagcac attctcctca gtgagctcat gaggttttca tttttattct 180
 tccttccaac gtggtgctat ctctgaaacg agcgttagag tgccgcctta gacggaggca 240
 ggagtttcgt tagaaagcgg acgctgttct aaaaaaggtc tcctgcagat ctgtctgggc 300
 tgtgatgacg aatattatga aatgtgcctt ttctgaagag attgtgttag ctccaaagct 360
 tttcctgtcg cagtgtttca gttctttatt ttcccttggt gatattgctgt gtgaaccgtc 420
 gtgtgagtggt ggtatgcctg atcacagatg gattttgtta taagcatcaa tgtgacactt 480
 gcaggacact acaacgtggg aca 503

<210> 364
 <211> 365
 <212> DNA
 <213> Homo sapiens

<400> 364
 ggccgccctt tttttttttt ttggggggga aaaaattttt ttttaaaaaa aaaaaaactt 60
 cccccctggg gaaaaaaaaa ggttttttaa aaaaaaaaaa aaacaaaatt ttcccgggcc 120
 ctttaggggt tttaaatttt cccccgggtt gaaccctttt taaaaaaaaa ggaatttttt 180
 tggggggaaa taatggggga aaaacccaaa aaaaaggggg gttttttttt taaaaccctt 240
 ttttttttaa aaaaccttcc cccaggggaa aaattcccaa aaccttttaa aaaaaagggt 300
 ccgaaatttt taatccaaag gggaaaaaac ccccccccaa caaaaaacc ccaaagggga 360
 aaaaag 365

<210> 365
 <211> 680
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 172, 173, 176, 186, 199, 200, 591, 625, 659, 670
 <223> n = A,T,C or G

<400> 365

```

aggacacaga caaggaactt gctgaaaggg caaccatttc aggatcagtc aaaggcagca 60
agcagataga ctcaagggtg gtgaaagatg ttatacacca ggagctgcca cttcatgtcc 120
caaccagact gtgtctgtct gtgtctgcat gtaagagtga gggagggaag gnnngnacta 180
caaganagtc ggagatgann cagcacacac acaattcccc agcccacgtg atgcttgtgt 240
tgaccagatg ttcttgagtc tggagcaagc acccaggcca gaataacaga gctttcttag 300
ttggtgaaga cttaaaccatc tgcctgaggt caggaggcaa tttgcctgcc ttgtacaaaa 360
gctcaggtga aagactgaga tgaatgtctt tcctctccct gcctcccacc agacttcttc 420
ctggaaaacg ctttggtaga tttggccagg agctttcttt tatgtaattg gataaatata 480
cacaccatac actatccaca gatatagcca agtagatttg ggtagaggat actatttcca 540
gaatagtgtt tagctcacct agggggatat gtgtatcac atttgcatat nccacatggg 600
gacataagct aattttttac agacncgatt ctgtcatgct gttaatagcc atggttaanc 660
ccccattggn ggggccggtg                                     680

```

<210> 366

<211> 570

<212> DNA

<213> Homo sapiens

<400> 366

```

taagctcggg attcggtcgc agcggctcga gtcaagagaa aacacaagaa ggacatcagc 60
cagaacaagc gagccgtgag gcggctgcgc accgcctgcg agagggccaa gaggaccctg 120
tcgtccagca cccaggccag cctggagatc gactccctgt ttgagggcac cgacttctac 180
acgtccatca ccagggcgag gttcgaggag ctgtgctccg acctgttccg aagcaccctg 240
gagcccgtgg agaaggctct gcgcgacgcc aagctggaca aggccagat tcacgacctg 300
gtcctggtcg ggggctccac ccgcatcccc aagggtgcaga agctgctgca ggacttcttc 360
aacgggcgcg acctgaacaa gagcatcaac cccgacgagg ctgtggccta cggggcggcg 420
gtgcaggcgg ccatcctgat gggggacaag tccgagaacg tgcaggacct gctgctgctg 480
gacgtggctc ccctgtcgtt ggggctggag acggccggag gcgtgatgac tgcctgatc 540
aagcgcaact ccaccatccc caccaagcag                                     570

```

<210> 367

<211> 454

<212> DNA

<213> Homo sapiens

<400> 367

```

gccgcccttt tttttttttt tttttttttt tttttttttg tttttttttt tttttcaaaa 60
aaaaaaaaatc ttttttagaaa aaaaaaaccc cccccaacaa aaaatggggg ggggggggga 120
ttttccctcc cgggggaagg agaaaaagcc gcagtaataa aaaggggggg aacccaaaaa 180
tttttttttt tttttaaaaa aggttttttt gggggccccc cccccaacaa aaaaaaagg 240
tccccccctt ttttttcccc cctttttggg ggggaaaaaa aaaaaagggg ggggaaaaaa 300
acagaaaatt ttccccaaaa atttaaaaaa aaaagggggg ggggggggaa aaaaaaggtt 360
tttttacccc cctggggggg aaaaaaaaaa aatttggggc caccaaaaag gggggggggc 420
cccccaaaaa aggggggttt ttttaaaaaa aaaa                                     454

```

<210> 368

<211> 651

<212> DNA

<213> Homo sapiens

<400> 368

```

taagctcggg attcggtcgc agtgggtctc gtctactccg ggtctttcag gaggccaaaa 60
ggcagctcca gaagattgac aaatctgagg gccgcttcca tgtccagaac cttagccagg 120
tggagcagga tgggcggacg gggcatggac tccgcagatc ttccaagtcc tgcttgaagg 180
agcacaagac cctcaagacg ttaggcatca tcatgggcac tttcaccctc tgctggctgc 240
ccttcttcat cgtaaacatt gtgcatgtga tccaggataa cctcatccgt aaggaggttt 300
acatcctcct aaattggata ggctatgtca attctggttt caatccccct atctactgcc 360
ggagcccaga tttcaggatt gccttccagg agcttctgtg cctgcgcagg tcttctttga 420
aggcctatgg gaatggctac tccagcaacg gcaacacagg ggagcagagt ggatatcacg 480
tggaacagga gaaagaaaat aaactgctgt gtgaagacct cccaggcacg gaagactttg 540
tgggccatca aggtactgtg cctagcgata acattgattc acaaggaggg aattgtagta 600
caaatgactc actgtgttaa agcagttttt ctacttttaa agaccccccc c                                     651

```

<210> 369
 <211> 280
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 112
 <223> n = A,T,C or G

<400> 369
 tggctcttcgt ctactccagg gtctttcagg aggccaaaag gcagctccag aagattgaca 60
 aatctgaggg ccgcttccat gtccagaacc ttagccagggt ggagcaggat gngcggacgg 120
 ggcatggact ccgcagatct tccaagttct gcttgaagga gcacaaagcc ctcaagacgt 180
 taggcatcat catgggcact ttcaccctct gctggctgcc cttcttcacg gttaacattg 240
 tgcattgtgat ccaggataac ctcatccgta agaagtttac 280

<210> 370
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 370
 ggccgcccctt tttttttttt ttttttcccg ggcttttttg ggaaaaaccc ccctttccca 60
 taaaaaaatt tttttggggg tttcccaatt tttttttcca atttcaaata atttttttcc 120
 aaaaaaaacc caaacccctg ggcccttttt tttttttttt aaagggcctt tttacttttc 180
 cccaaggagg ccttggggaa ataaaaaaaa cccggttggg gggcccaaaa aaaggggttg 240
 gcccccttga atccccatt ggtttggggg taaaaaaggc ccccccatgg gcccccttcc 300
 cccggggggg ggaaccccc ccgaagaccc ccccggggga aaccggggcc aaaaaaaaaa 360
 ccctttaaaa ttttaaaaaa cgggccccc cctaaaaaaa ctttttttta aaaagggg 418

<210> 371
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 371
 ttagggatata agttgctgta aaatttgtgt aaatttgtat ccacacaaat tcagtctctg 60
 aatacacagt attcagagtc tctgatacac agtaattgtg acaatagggc taaatgttta 120
 aagaaatcaa aagaatctat tagatttttag aaaaacattt aaacttttta aaatacttat 180
 taaaaaattt gtataagcca cttgtcttga aaactgtgca acttttttaa gttaaattatt 240
 aagcagactg gaaaagtgat gtattttcat agtgacctgt gtttcaacta at 292

<210> 372
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 372
 tccttatttta ttttaacttca cccgagttcc tctgggtttc taagcagtta tggatgatgac 60
 ttagcgtaaa gacatttgcg gaactcagca cattcgggac caatatatag tgggtacatc 120
 aagtcacatc gacaaaatgg ggcagaagag aaaggactca gtgtgtgatc cggtttcttt 180
 ttgctcgccc ctgttttttg tagaatctct tcatgcttga catacctacc agtattattc 240
 ccgacgacac atatacatat gagaatatac cttattttatt tttgtgtagg tgtctgcctt 300
 cacaatatgtc attgtctact cctagaagaa ccaaatacct caatttttgt ttttgagtac 360
 tgtactatcc tgtaaatata tcttaagcag gtttgttttc agcactgatg gaaaaa 415

<210> 373
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 373

```

tccttattta tttaacttca cccgagttcc tctgggtttc taagcagtta tggatgatgac 60
ttagcgtaa gacatttgct gaactcagca cattcgggac caatatatag tgggtacatc 120
aagttcatct gacaaaatgg ggcagaagag aaaggactca gtgtgtgatc cggtttcttt 180
ttgctcgccc ctgttttttg tagaatctct tcatgcttga catacctacc agtattattc 240
ccgacgacac atatacatat gagaatatac cttattttatt tttgtgtagg ggtctgcctt 300
cacaaatgtc attgtctact cctaca 326

```

<210> 374

<211> 324

<212> DNA

<213> Homo sapiens

<400> 374

```

tccttattta tttaacttca cccgagttcc tctgggtttc taagcagtta tggatgatgac 60
ttagcgtaa gacatttgct gaactcagca cattcgggac caatatatag tgggtacatc 120
aagttcatct gacaaaatgg ggcagaagag aaaggactca gtgtgtgatc cggtttcttt 180
ttgctcgccc ctgttttttg tagaatcttt tcatgcttga catacctacc agtattattc 240
ccgacgacac atatacatat gagaatatac cttattttatt tttgagtagg tgtctgcctt 300
cacaaatggc attggctact ccag 324

```

<210> 375

<211> 466

<212> DNA

<213> Homo sapiens

<400> 375

```

taactctggg aggggctcga gagggctggt ccttatttat ttaacttcac ccgagttcct 60
ctgggtttct aagcagttat ggtgatgact tagcgtaag acatttgctg aactcagcac 120
attcgggacc aatatatagt ggtacatca agtccatctg acaaaaatgg gcagaagaga 180
aaggactcag tgtgtgatcc gggttctttt tgctcgcccc tgttttttgt agaactctct 240
catgcttgac ataccatcca gtattattcc cgacgacaca tatacatatg agaataacc 300
ttattttatt ttgtgtagggt gtctgccttc acaaatgtca ttgtctactc ctagaagaac 360
caaatacctc aatttttggt tttgagtact gtactatcct gtaaatatat ctaagcagg 420
tttgttttca gcactgatgg aaaataccag tggtgggttt tttttt 466

```

<210> 376

<211> 324

<212> DNA

<213> Homo sapiens

<400> 376

```

tccttattta tttaacttca cccgagttcc tctgggtttc taagcagtta tggatgatgac 60
ttagcgtaa gacatttgct gaactcagca cattcgggac caatatatag tgggtacatc 120
aagttcatct gacaaaatgg ggcagaagag aaaggactca gtgtgtgatc cggtttcttt 180
ttgctcgccc ctgttttttg tagaatcttt tcatgcttga catacctacc agtattattc 240
ccgacgacac atatacatat gagaatatac cttattttatt tttgagtagg tgtctgcctt 300
cacaaatggc attgtctact ccag 324

```

<210> 377

<211> 326

<212> DNA

<213> Homo sapiens

<400> 377

```

tccttattta tttaacttca cccgagttcc tctgggtttc taagcagtta tggatgatgac 60
ttagcgtaa gacatttgct gaactcagca cattcgggac caatatatag tgggtacatc 120
aagttcatct gacaaaatgg ggcagaagag aaaggactca gtgtgtgatc cggtttcttt 180
ttgctcgccc ctgttttttg tagaatctct tcatgcttga catacctacc agtattattc 240
ccgacgacac atatacatat gagaatatac cttattttatt tttgtgtagg ggtctgcctt 300
cacaaatgtc attgtctact cctaca 326

```

<210> 378
 <211> 494
 <212> DNA
 <213> Homo sapiens

<400> 378
 atgccccgca tagatgcgga cctcaagctc gacttcaagg atgtcctgct ccgacctaaag 60
 cggagcagcc tcaagagccg agccgaggtg gatcttgaac gcaccttcac gtttcgaaat 120
 tcaaagcaga cctactcagg gattcccatc atcgtggcca acatggacac tgtgggcacg 180
 tttgagatgg cagccgtgat gtcacagcac tccatgttta cagcaattca taagcattac 240
 tccctggatg actggaagct ctttggcaca aatcacccag aatgcctgca gaatgtagcc 300
 gtgagttcag gcagtgggca gaatgatctg gaaaagatga ccagcatcct ggaagctgtg 360
 ccacaggtta agtttatttg cctggatgtg gccaatgggt attcaaaaca ttttgtggaa 420
 ttcgtgaaac ttgtccgtgc caaatttcct gaacacacca ttatggcagg gaacgtggtg 480
 acaggagaaa tgggt 494

<210> 379
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 379
 gccgctgcac catgccccgc atagatgcgg acctcaagct cgacttcaag gatgtcctgc 60
 tccgacctaa gcggacagcc tcaagagccg agccgaggtg gatcttgaac gcaccttcac 120
 gtttcgaaat tcaaagcaga cctactcagg gattcccatc atcgtggcca acatggacac 180
 tgtgggcacg tttgagatgg cagccgtgat gtcacagcac tccatgttta cagcaattca 240
 taa 243

<210> 380
 <211> 804
 <212> DNA
 <213> Homo sapiens

<400> 380
 gcaaatgttt gattaattct gtcacatgac acatctgaaa gcatgagaca cactccacag 60
 acagcacgca ctggagctgg tggggcagat gggcactcgc cgattaggta ttaatgtcaa 120
 taatacgtgc ataaagtgtc gataaaataa cttaagtgtt acaaaaacag acagtccacg 180
 gtggctgcag gcacatgcag gcgggactgg gtcagacact ccagggtgc acatgttcca 240
 gctggcctga gtccgacacg tcatagctgg ccttgtaactt ggccaggatt ttcagagggg 300
 gccgtagctt gagccaccac tgttctttgg gaatcctgtg ctcaaaatcc gtttgcttct 360
 tcagctctgc cacaggtttg aaaaataacg tttcttttgc ttattcccag cacacaaatg 420
 gaatcatcgg tggtaaatat ttttcctctg ccccgggcct ccttgagttt tgcagtgatc 480
 cactccatag ctctggcaga gattttggtt ccaaagtctc tatcaaatgg agagggtgcc 540
 ccacctgct gcattgtgacc cagcacgttc ttctgcagt caaacacgcc tttgccctct 600
 tctgaataca gctggtaaat gaagtcggtg gtgtagtttt cactgcagct ctcatctctg 660
 agcacaaggc ctctctggat ggtggtcttc atttctccg tcagggtgctc cacgttggac 720
 tgcagatcct gatgtcgaag ggctcttcga aatgtatgcg gcatcagtcg ggccgcagcc 780
 ccccatgttg gcaggtagca cagt 804

<210> 381
 <211> 624
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 514
 <223> n = A,T,C or G

<400> 381
 tggagtgtga ggcaaatgtt taattaattc tgctcatatg cacatctgaa agcatgagac 60

```

acactccaca gacagcacgc actggggctg gtggggcaga tgggcactcg ccgattaggt 120
attaatgtca ataatacgtg cataaagtgc tgataaaata acttaagtgt tacaaaaaca 180
gacagtccac ggtggctgca ggcacatgca ggcgggactg ggtcagacac tccagggctg 240
cacatgttcc agctggcctg agtccgacac gtcatactgt gccttgactc tggccaggat 300
tttcatgagg ggccgtagct tgagccacca ctgttctttg ggaatcctgt gctcaaaatc 360
cgtttgcttc ttcagctctg ccacagggtg aaaaataacg tttcttttgc ttattcccag 420
cacacaaatg gaatcatcgg tggtaaattt ttttctctg ccccgggcct ccttgagttt 480
tgcagtgatc cactccatag ctctggcaga gatnttggtt ccaaagtttc tatcaaatgg 540
agaggtgccc caccctgctg atgtgacccc acacgttctt cctgagtcaa acacgccttt 600
gccctcttct gaatacaagc tgggt                                     624

```

<210> 382

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 301, 460, 498

<223> n = A,T,C or G

<400> 382

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ttttttggag ttgtaggaaa tgtttaattc tgctcatatg cacatctgaa agcatgagac 60
acactccaca agacagcacg cactggggct ggtggggcag atgggcactc gcgattaggt 120
attaatgtta ataatacgtg cataaagtgc tgataaaata acttaagtgt tacaaaaaca 180
gacagtccac ggtggctgca ggcacatgca ggcgggactg ggtcagacac tccagggctg 240
cacatgttcc agctggcctg agtccgacac gtcatactgt gccttgactc tggccaggat 300
nttttcatga ggggccctag ctttgagcca ccacttgctt tttggggaat cctgtgcttc 360
aaaatcccgt tttgcttctt tcagctcttc ccacagggtt gaaaaataac gttttctttt 420
tgcttatatt ccagcacaca aatgggattc atcggtgggg aatttttttc ctctgccccg 480
gggcttcttg agtttttnca gtgattc                                     507

```

<210> 383

<211> 224

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 198, 219

<223> n = A,T,C or G

<400> 383

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atcagatccc aaagaccaat tgcaacgtag ctgtcatcaa cgtgggggca cccgcggctg 60
ggatgaacgc ggccgtacgc tcagctgtgc gcgtgggcat tgccgacggc acaggatgct 120
cgccatctat gatggtttga cggtctcgca agggccagat caaagaaatc ggctggacag 180
atgtcggggg ctggaccngc caaggaggct ccattcttng gaca                                     224

```

<210> 384

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 301, 460, 498

<223> n = A,T,C or G

<400> 384

```

ttttttggag ttgtaggaaa tgtttaattc tgctcatatg cacatctgaa agcatgagac 60
acactccaca agacagcacg cactggggct ggtggggcag atgggcactc gcgattaggt 120
attaatgtta ataatacgtg cataaagtgc tgataaaata acttaagtgt tacaaaaaca 180

```

```

gacagtccac ggtggctgca ggcacatgca ggcgggactg ggtcagacac tccagggctg 240
cacatgttcc agctggcctg agtcccagaca cgtcatagct ggccttgtag ttggccaggg 300
nttttcatga ggggccctag ctttgagcca ccacttgctt tttggggaat cctgtgcttc 360
aaaatcccgt tttgcttctt tcagctcttc ccacagggtt gaaaaataac gttttctttt 420
tgcttatttc ccagcacaca aatgggattc atcggtggnn aatttttttc ctctgccccg 480
gggcttcttg agtttttnca gtgattc 507

```

<210> 385

<211> 224

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 198, 219

<223> n = A,T,C or G

<400> 385

```

atcagatccc aaagaccaat tgcaacgtag ctgtcatcaa cgtgggggca cccgaggctg 60
ggatgaacgc ggccgtacgc tcagctgtgc gcgtgggcat tgccgacggc acaggatgct 120
cgccatctat gatggtttga cggcttcgca agggccagat caaagaaatc ggctggacag 180
atgtcggggg ctggaccngc caaggaggct ccattcttng gaca 224

```

<210> 386

<211> 232

<212> DNA

<213> Homo sapiens

<400> 386

```

acgacagaag ggtacggctg cgagaagacg acagatgggt acggctgtga gaagacgact 60
gatgggaaca gctaaggact gctaaacccc actctgcatc aactgaacgc aaatcagcca 120
ctttaattaa gctaagccct tactagacca atgggactta aaccacaaa cacttagtta 180
acagctaagc accctaatac actggcttca atgtacttct cccgccgtcg gg 232

```

<210> 387

<211> 339

<212> DNA

<213> Homo sapiens

<400> 387

```

tactggtttt ggagaacttg tctacaacca gggattgatt ttaaagatgt ctttttttat 60
tttacttttt ttttaagcacc aaattttggt gttttttttt ttttctccct tccccacaaa 120
tcccttttaa aatatttttg ttaaccccct ttccaacggg ccgaggaaac ttaaaacccc 180
tttttctctg gcctggttcc tctttaattt ttaatttttc cccatcagtt taaagggttt 240
ggcatacttg gcatcttttt tcaaaggga aacttttttt gccattcttt ggacttcccc 300
ttttttaaag gaaatggggg ggccaaaagg ggatttcaa 339

```

<210> 388

<211> 456

<212> DNA

<213> Homo sapiens

<400> 388

```

tttttttttt tttttttttt ttttaaccatc aaattcacag ctatttttctg ctttttagtgt 60
gctcacagaa aattagaaca ccttaagcag gagtttaata gcattttttg taagcaaagt 120
tacattccat ctctaagtca aattggtcaa agcttctcca gtattttaca aacatgatag 180
acaagatgct acacaaaacc attgcatctg aagattttgt tttcctttat tctcaaagac 240
gactggaaaa gaaagcatta tctgctgtaa tcaaaaacat accacagtat aaacagttac 300
cattccactt atcacagctt ggttgagttt agaatttagt ttttaaaaag tccaagatga 360
ctgcagtttt acaaaaatgg gcagggtgga aagttgcaaa cttcatgtgc ttctggatat 420
caagatttgt ttttatacaa tagtcacagt taaaaa 456

```

<210> 389
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 389
 ttacattgaa tactacatat gtcgagggaa tgcagaaaaga gttaaggaag gcaggttgtc 60
 ctgctatgga ggccactcct cgttttccat gtactgcatg ctgtttgtgg cactttatct 120
 tcaagccagg atgaaggag actgggcaag actcttacct cccacactgc aatttgggtct 180
 tgttgccgta tccatttatg tgggcctttc tcgagttgct gattataaac accactggag 240
 cgatgtgttg actggactca ttcagggagc tctggttgca atattagttg ctgtatatgt 300
 atcggatttc ttcaaagaaa gaacttcctt taaagaaaaga aaagaggagg actctcatc 360
 aactctgcat gaaacaccaa caactgggaa tcactatccg agcaatcacc agccttgaaa 420
 ggcagcaggg tgcccagggt aagctggcct gttttctaaa ggaaaatgat tgccacaagg 480
 caagaggatg 490

<210> 390
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 390
 gaactcgggtg gtggccactg cgcagaccag acttcgctcg tactcgtgcg cctcgtttcg 60
 cttttcctcc gcaaccatgt ctgacaaaacc cgatatggct gagatcgaga aattcgataa 120
 gtcgaaactg aagaagacag agacgcaaga gaaaaatcca ctgccttcca aagaaacgat 180
 tgaacaggag aagcaagcag gcgaatcgta atgaggcgtg cgccgccaat atgcactgta 240
 cattccacaa gcattgcctt cttattttac ttcttttagc tgtttaactt tgtaagatgc 300
 aaagagggtg gatcaagatt aaatgactgt gctg 334

<210> 391
 <211> 377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 349
 <223> n = A,T,C or G

<400> 391
 gaactcgggtg gtggccactg cgcagaccag acttcgctcg tactcgtgcg cctcgtttcg 60
 cttttcctcc gcaaccatgt ctgacaaaacc cgatatggct gaggtcgaga aattcgataa 120
 gtcgaaactg aagaagacag agacgcaaga gaaaaatcca ctgccttcca aagaaacgat 180
 tgaacaggag aagcaagcag gcgaatcgta atgaggcgtg cgccgccaat atgcactgta 240
 cattccacaa gcattgcctt cttattttac ttcttttagc tgtttaactt tgtaagacgc 300
 atagagggtg gatcaagttt aaatgactgt gctgcccctt tcacatcana gaactactga 360
 caacgaaggc cgcgcct 377

<210> 392
 <211> 555
 <212> DNA
 <213> Homo sapiens

<400> 392
 ctcggtgggtg gccactgcgc agaccagact tcgctcgtae tcgtgcgcct cgctttgctt 60
 ttcctccgca accatgtctg acaaacccga tatggctgag atcgagaaat tcgataagtc 120
 gaaactgaag aagacagaga cgcaagagaa aaatccactg ccttccaaaag aaacgattga 180
 acaggagaag caagcaggcg aatcgtaatg aggcgtgcgc cgccaatatg cactgtacat 240
 tccacaagca ttgccttctt attttacttc ttttagctgt ttaactttgt aagatgcaaa 300
 gaggttggtg caagtttaaa tgactgtgct gccctttca catcaaagaa ctactgacaa 360
 cgaaggccgc gcctgccttt cccatctgtc tatctatctg gctggcaggg aaggaaagaa 420
 cttgcatgtt ggtgaaggaa gaagtggggt ggaagaagtg ggggtgggacg acagtgaat 480

ctagagtaaa accaagctgg cccaaggtgt cctgcaggct gtaatgcagt ttaatcagag 540
tgccattttt ttttt 555

<210> 393
<211> 300
<212> DNA
<213> Homo sapiens

<400> 393
gctcaattgg actatgttga cctctatctt attcattctc caatgtctct aaagccagggt 60
gaggaacttt caccaacaga tgaaaatgga aaagtaatat ttgacatagt ggatctctgt 120
accacctggg aggccatgga gaagtgtgag gatgcatgat tggccaagtc cattgggggtg 180
tcaaacttca accgcaggca gctggagatg atcctcaaca agccaggact caagtacaag 240
cctggctgca accaggtaga aagtcattcg tatttcaacc ggagtaaatt gctagaatcg 300

<210> 394
<211> 344
<212> DNA
<213> Homo sapiens

<400> 394
acagaagggt acggctgcga gaagacgaca gaagggtacg gctgcgagaa gacgacagaa 60
gggtacggct gcgagaagac gacagaaggg taaaacactg aactgacaat taacagccca 120
atatctacaa tcaaccgaca agtcattatt accctcactg tcaaccaaac acaggcatgc 180
tcataaggaa aggttaaaaa aagtaaaagg aactcggcaa atcttaccac gcctgtttac 240
caaaaacatc acctgtagca tcaccagtat tagaggcacc gcctgccagc tgacacatgt 300
ttaacggccg cggtagcccta accgtgcaaa ggtagcataa tcac 344

<210> 395
<211> 507
<212> DNA
<213> Homo sapiens

<400> 395
tgctcgggtcc ttccgaggaa gctaaggctg cggtgggggtg aggccctcac ttcacccggc 60
gactagcacc gcgtccggca gcgccagccc tactctcgcc cgcgccatgg cctctgtctc 120
cgagctcgcc tgcatctact cggccctcat tctgcacgac gatgaggtga cagtcacgga 180
ggataagatc aatgccctca ttaaagcagc cggtgtaaat gttgagcctt tttggcctgg 240
cttgtttgca aaggccctgg ccaacgtcaa cattgggagc ctcactctgca atgtaggggc 300
cggtggacct gctccagcag ctggtgctgc accagcagga ggtcctgccc cctccactgc 360
tgctgctcca gttgaggaga agaaagtggg agcaaagaaa gaagaatccg aggagtctga 420
tgatgacatg ggctttggtc tttttgacta aacctctttt ataacatgtt caataaaaaa 480
ctgaacttta aaaaaaaaaa aaaaaaa 507

<210> 396
<211> 488
<212> DNA
<213> Homo sapiens

<400> 396
gaggccctca cttcatccgg cgactagcac gcggtccggc agcgccagcc ctacactcgc 60
ccgcgccatg gcctctgtct ccgagctcgc ctgcatctac tcggccctca ttctgcacga 120
cgatgaggtg acagtacagg aggataagat caatgccctc attaaagcag ccggtgttaa 180
tggtgagcct ttttggcctg gcttgtttgc aaaggccctg gccaacgtca acattgggag 240
cctcatctgc aatgtagggg ccggaggacc tgctccagca gctgggtgctg caccagcagg 300
aggctcctgc ccctgcactg ctgctgctcc agttgaggag aagaaagtgg aagcatagaa 360
agaagaatcc gacgagtctg atgatgacat gggctatggt ctttttgact aaacctcttt 420
tataacatgt tcaataaaaa gctgaacttt aaaaagaaaa aaaaaaaact cgagcctcta 480
gaactata 488

<210> 397

<211> 180
 <212> DNA
 <213> Homo sapiens

<400> 397
 ctgcgttggg gtgaggccct cacttcatcc ggcgactagc accggtccg gcagcgccag 60
 ccctacactc gcccgcgcca tggcctctgt ctccgagctc gcctgcatct actcggccct 120
 cattctgcac gacgatgagg tgacagtcac ggaggataag atcaatgccc tcattaaagc 180

<210> 398
 <211> 491
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> 12, 154, 255, 348, 368, 402, 409, 450, 471
 <223> n = A,T,C or G

<400> 398
 tttttttttt tntttcactg ttcaagggtt attgggggtt ttagttggta taacacttgg 60
 atagttgggt gcattgtttg tatgtagatc tttttacatt atatggtaat gtacactact 120
 gatatagttc acaaaataag atcctttgga aganttatac acaagacatg atattggatt 180
 tatacactgg atcccaggga tgtgactcac tgggaaaaaa tgttggacta ggcattgtca 240
 gtgaaggagc caggnagtta tataacacac ggtaaacatc cacctggctc aaggggcaaa 300
 tgcagtacgt acagcattgg cagtgggtgcg tcagagggtg cagaactntt tcacactaac 360
 cagttganga ctacacaaga ttaataccat ccagcatcag gntatagcnt gtggatttta 420
 caaaccattt cttatttcta actttcaggn gttgatgttt ttcccagtc ntcttaaaat 480
 ttttactgct t 491

<210> 399
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 399
 tgatttctgt ggatcccagc ttggttccag gaattttgtg tgattggctt aaatccagtt 60
 ttcaatcttc gacagctggg ctggaacgtg aactcagtag ctgaacctgt ctgacccggt 120
 cagtttcttg gatcctcaga actctttgct cttgtcgggg tgggggtggg aactcacgtg 180
 gggagcgggtg gctgagaaaa tgtaaggatt ctggaatata tattccatgg gactt 235

<210> 400
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 400
 tacggctgcg agaagacgac agaaggggtac ggctgcgaga agacgacaga agggtagggc 60
 tgcgagaaga cgacagaagg gtacggctgc gagaagacga cagaaggggtg atttctgtgg 120
 atcccagctt ggttccagga attttgtgtg attggcttaa atccagtttt caatcttcga 180
 cagctgggct ggaacgtgaa ctcagtagct gaacctgtct gacctgggtc cgttcttgga 240
 tcctcagaac tctttgctct tgcgggggtg ggggtgggaa ctcacgtggg gagcgggtggc 300
 tgagaaaatg taaggattct ggaatacata ttccatggga ctttccttcc ctctcctgct 360
 tcctcttttc ctgctcccta acctttcgcc gaatggggca gcaccactga cgtttctggg 420
 cggccagtgc ggctgccagg ttctgttact actgccttgt acttt 465

<210> 401
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 401

```

tgattttctgt ggatcccagc ttggttccag gaattttgtg tgattggctt aaatccagtt 60
ttcaatcttc gacagctggg ctggaacgtg aactcagtag ctgaacctgt ctgacccggt 120
cacgttcttg gatcctcaca actctttgct ctgtgcgggg tgggggtggg aactcacgtg 180
gggagcggtg gctgagaaaa tgtaaggatt ctggaatata tattccatgg gactttcctt 240
ccc 243

```

<210> 402

<211> 506

<212> DNA

<213> Homo sapiens

<400> 402

```

ttctagcatc ctcttaacgt gcagcaaaaag caggcgacaa aatctcctgg ctttacagac 60
aaaaatattt cagcaaacgt tgggcatcat gggttttgaa ggcttttagt ctgctttctg 120
cctctcctcc acagcccaa cctcccaccc ctgatacatg agccagtgat tattcttggt 180
cagggagaag atcatttaga ttgtttttgc attccttaga atggagggca acattccaca 240
gctgccctgg ctgtgatgag tgtccttgca ggggcccggg taggagcact ggggtggggg 300
cggaattggg gttactcgat gtaagggtt ccttggtgtt gtgttgagat ccagtgcagt 360
tgtgatttct gtggatccca gcttgggtcc aggaattttg tgtgattggc ttaaataccag 420
ttttcaatct tcgacagctg ggctggaacg tgaactcagt agctgaacct gtctgacccg 480
gtcacgttct tggatcctca gaactc 506

```

<210> 403

<211> 390

<212> DNA

<213> Homo sapiens

<400> 403

```

gtagtcgcct ctctttcagc agttaccag gggttttgga gtctctggat gattttttaca 60
ttcttagcag tggattgata ttgctgcaga ccacaaacag tgtgtttaat aaaaccctgc 120
taaagcaggt aatacccag actctcctgt cctggcaaa agtccgtgtg gccaatatga 180
tggcagatag tggcaagagg tggcagaca tcttttcaaa atacaactct ggcacctata 240
acaatcaata catggttctg gacctgaaga aagtaaagct gaaccacagt cttgacaaaag 300
gcactctgta cattgtggag caaatccta catatgtaga atattctgaa caaactgatg 360
ttctacggaaggatattgg ccctcctaca 390

```

<210> 404

<211> 372

<212> DNA

<213> Homo sapiens

<400> 404

```

aggagattca gaagcacaac cacagcaaga gcacctggct gatcctgcac cacaagggtgt 60
acgatttgac caaatttctg gaagagcatc ctgggtggga agaagtttta agggaacaag 120
ctggagggtga cgctactgag aactttgagg atgtcgggca ctctacaaat gccagggaaa 180
tgtccaaaac attcatcatt ggggagctcc atccagatga cagaccaaag ttaaacaagc 240
ctccggaaac tcttatcact actattgatt ctagttccag ttggtggacc aactgggtga 300
tccttgccat ctctgcagtg gccgtgcct tgatgtatcg cctatacatg gcagaggact 360
gaacacctcc tc 372

```

<210> 405

<211> 619

<212> DNA

<213> Homo sapiens

<400> 405

```

tcccgggtgg agctggctga gtcgcgcgct ctgctccacc cgacggggct gtgtgtgctg 60
ggcctggctc gcggcgaacc gagatggcag agcagtcgga cgaggccgtg aagtactaca 120
ccctagagga gattcagaag cacaaccaca gcaagagcac ctggctgatc ctgcaccaca 180
agggtgtacga tttgaccaa tttctggaag agcatcctgg tggggaagaa gttttaaggg 240
aacaagctgg aggtgacgct actgagaact ttgaggatgt cgggcactct acaaatgcca 300

```

```

gggaaatgtc caaaacattc atcattgggg agctccatcc agatgacaga ccaaagttaa 360
acaagcctcc ggaaactctt atcactacta ttgattctag ttccagttgg tggaccaact 420
gggtgatccc tgccatctct gcagtggccg tcgccttgat gtatcgcta tacatggcag 480
aggactgaac acctcctcag aagtcagcgc aggaagagcc tgctttggac acgggagaaa 540
agaagccatt gctaactact tcaactgaca gaaaccttca cttgaaaaca atgattttaa 600
tatatctctt tctttttct

```

<210> 406

<211> 499

<212> DNA

<213> Homo sapiens

<400> 406

```

taagctcggg attcggctcg agggctccag ctgagctcct gcttctactg aggacatacc 60
tcccagatga ggtggggccc ccaaccccat tccctgagcc tggagcagag cccctctca 120
ctgtgggctt gctcaaagcc ctgctggagc agactggggc tcaaggatgg ctgtcgggcc 180
cagttctaaag cccatatgag gacatcctat gggaccccag cactccacc cggactccac 240
ctcgggacct atgactaccc ttcaggcatc agaacactca gggcctggag gcttgcttgg 300
gactggaggg ttgcttggac agttcctctg tgtcactgac acaggaaatc atttctagga 360
cacagtgatc agggaaaggg gcctgggact tggaggggcc catgtatgga cctgtgtatg 420
caatactgtt ctgtcatctg gagctatctt taagatgtgt gtgttaata tatacatagt 480
ttaatatata aaaaaaaaaa

```

<210> 407

<211> 229

<212> DNA

<213> Homo sapiens

<400> 407

```

ggctccagct gagctcctgc ttctactgag gacatacctc ccagatgagg tggggccccc 60
aaccctatcc cctgagcctg gagcagagcc ccctctcact gtgggcttgc tcaaagccct 120
gctggagcag actggggctc aaggatggct gtcgggcccc gttctaagcc catatgagga 180
catcctatgg gaccccagca ctccaccccc gactccacct cgggaccta

```

<210> 408

<211> 467

<212> DNA

<213> Homo sapiens

<400> 408

```

ggaagttctg cgctggctcg cgaggtatca agtggccatg gggagcctca gcggtctgcg 60
cctggcagca ggaagctgtt ttaggttatg tgaaagagat gttggcctca tctctaaggc 120
ttaccagaag ctctgatttg aagagaataa atggattttg cacaaaacca caggaaagtc 180
ccggagctcc atcccgcact tacaacagag tgcctttaca caaacctacg gattggcaga 240
aaaagatcct catatggtca ggtcgcttca aaaaggaaga tgaaatcccc gagactgtct 300
cgttggagat gcttgatgct gcaaagaaca agatgcgagt gaagatcagc tatctaata 360
ttgccctgac ggtggtagga tgcattctca tgggttattga gggcaagaag gctgcccata 420
gacacgagac ttaacaagc ttgaacttat aaaagaaagc tcgtctg

```

<210> 409

<211> 338

<212> DNA

<213> Homo sapiens

<400> 409

```

ggaagttctg cgctggctcg cgaggtatca agtggccatg gggagcctca gcggtctgcg 60
cctggcagca ggaagctgtt ttaggttatg tgaaagagat gtttcctcat ctctaaggct 120
taccagaagc tctgatttga agagaataaa tggattttgc acaaaaacca aggaaagtc 180
cggagctcca tcccgcactt acaacagagt gcctttacac aaacctacgg attggcagaa 240
aaagatcctc atatggtcag gtcgcttcaa aaaggaagat gaaatcccag agactgtctc 300
gttgagatg cttgatgctg cagagatcaa gatgcgag

```

<210> 410
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 410
 tttgcacgat gccttcacac tcccacggcg ctgctgctgg gggcagattg gcctggggag 60
 gcagcacttg ctctccagct catctgggtt gcttttcccc gcagtggata tcacaggcta 120
 aagggggggg cagtccccac catatttgag tctttctcca agttgcgccg gacaaccaag 180
 accaaaggac acagttaccc acctggcccc tctgaagtca gccggctcag acgatgcagg 240
 aagcgctgct ccgagggccg agggcccaca actccatttt ctccacctcc acctgctgat 300
 gtcacctgct ttctgtgga agaggcctca gcacctgcca ctttgccggc ctccccagct 360
 gggaggctgg agcctggcct tagcagcccc ttttcagacc tactggggcc cttgggtgcc 420
 caggcagatg aagcaggctg cagcgcccag ccttcaccag agcggcagcc ctcccctctc 480
 gaaccacggc cagtctcccc ctacagcgtat atgctgcgcc tgccccacc cgccggagcc 540
 tacatccaga atgaacacag ctaccagggtg ggcagcgcct tactctggaa gcggcgagcc 600
 g 601

<210> 411
 <211> 52
 <212> DNA
 <213> Homo sapiens

<400> 411
 gccccttggg tgcccaggca gatgaagcag gctgcagcgc ccagccttca cc 52

<210> 412
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 412
 cgtttcggtt tctaggggtt ttacgaagct gcaggagcga gatggagggtg gacgcaccgg 60
 gtgttgatgg tcgagatggt ctccgggagc ggcgaggctt tagcgaggga gggaggcaga 120
 acttcgatgt gaggcctcag tctggggcaa atgggcttcc caaacactcc tactgggttg 180
 acctctggct tttcatcctt ttctgatgtg ttgtgtttct ctttgtgtat tttttgcat 240
 gacttggtcg ctgatatcta aattaagaag ttggttcttg agtgaattct gaaaatggct 300
 acaaacttct tgaataaaga agacaggact ctcaatagaa gaatttcaca tctccaaggg 360
 acccttcctt tcattttaca ctttgttact aatttgcaga actctattaa ttgggtagga 420
 tttcacccat tcctagctaa gttcttaaaa ttaaacctt tggttcgtgt ttaaaaactt 480
 tcaaacatct gatggcttta caggggctga atataaaagc atttg 525

<210> 413
 <211> 604
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 14, 18, 20, 24, 27, 29, 31, 33, 35, 54, 594, 595
 <223> n = A,T,C or G

<400> 413
 ttcgaaccca tncntttncn atcnganana ngntnctagt tcttctgaag accncatcga 60
 ttcgtttcgg tttctagggt tgttacgaag ctgcaggagc gagatggagg tggagcacc 120
 ggggtgtgat ggtcgagatg gtctccggga gcggcgaggc tttagcgagg gagggaggca 180
 gaacttcgat gtgaggcctc agtctggggc aaatgggctt cccaaacact cctactggtt 240
 ggacctctgg cttttcatcc ttttcgatgt ggtgggtgtt ctctttgtgt attttttgcc 300
 atgacttggt cgctgatatc taaattaaga agttggttct tgagtgaatt ctgaaaatgg 360
 ctacaaactt cttgaataaa gaagacagga ctctcaatag aagaatttca catctccaag 420
 ggaccttcc tttcatttta cactttgtta ctaatttga gaactctatt aattgggtag 480
 gatttcaccc attcctagct aagttcttaa aattaaacc tttggttcgt gtttaaaaac 540

tttcaaacat ctgatggctt tacaggggct gaatataaaa gcattttgtac ttannaaaaa 600
aaaa 604

<210> 414
<211> 285
<212> DNA
<213> Homo sapiens

<400> 414
ctctaacgtg ggcaacagag accctgtctc aaaaagaaaa tattcctggt agccctaaag 60
gctttacatg aggaatggta gaagtggctt tttgtttaaa ttagttgcat tcagcatata 120
tgaattgtct taaatatattt ggggatactc cccgccttt taaacagggc ataagatctg 180
gtaaactctc tgtatatctt cctacctttc aaaatcgttc ttaggggttag tcaagtctgg 240
aatataattg ctgactataa agttagcaat tatgctttaa ggtga 285

<210> 415
<211> 241
<212> DNA
<213> Homo sapiens

<400> 415
atttacactt gatggctaata aaagatggac agctaattgac agaattattt aatcgattag 60
aaagtcagca tcatttccag atagaaaagg ctctagttag gaaacttcag caggattttg 120
tagctgactg gtgctctgag ggagagtgc tagcagctat taactccacc tataatactt 180
cagggtatat tttggatcca cacactgctg ttgcaaaagt ggttgacagat aggggtgcaag 240
a 241

<210> 416
<211> 315
<212> DNA
<213> Homo sapiens

<400> 416
cggcttcttg aagagggggg gttgcggcag atccctgtag tgggcttcgt gctgaattgg 60
ttttctccgg tccaggcttc acagtaggga agaactttta acttgacagc aggcctctctg 120
gagtcacacag aaccatata tgtctacaaa gcacaagggt caggagtcac gctgcctcca 180
acgccctcgg gcagtcgcac caagcagagg cttccaggcc agaagccttt taaaagggtcc 240
ctgcgaggtt cagatgcttt gagtgagacc agctcagtc gtcattattga agacttagaa 300
aaggtggagc gccta 315

<210> 417
<211> 164
<212> DNA
<213> Homo sapiens

<400> 417
tggatccccc gggctgcagg aattcgaatt ctgtgtgtgt gtgtgtgtat gaatgggata 60
tttattacat tatttagaaa gagaatgagt gtgttatgag gataatgta tatacagctt 120
aagtggatgt ttctgttttg cacagaatgt aggatttctg aaac 164

<210> 418
<211> 206
<212> DNA
<213> Homo sapiens

<400> 418
tatatttatt acattatttt gaaagagaat tagtgtgtta tgtggataat gttatatata 60
gccaaagtgg atgtttctgt ttggcaagga aggtaggatt tctgaaactc aggccttaac 120
caatagggtg gaagacaaga ccaattgaag agttaggaaa tgtgagtttt tgttacttct 180
gttattccag tcttggtttc attgtc 206

<210> 419

<211> 238
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 159, 227
 <223> n = A,T,C or G

<400> 419
 agcagtgtac ataatatcc agtaggaaac tgcttccaag ttttaagcatg agctccccc 60
 actggagaaa acatatcttg ctattctgag acaacaatca gaatacagac tttggattcc 120
 aggtcacagt ttgcttttta gacaaggtaa agcaaagana gccacattgt gccatcttca 180
 gctccagtgg ctttagcagt gactgtttga cataaaacat gtaaganttg cttgttgg 238

<210> 420
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 420
 cggcgtgctt gctgctggag ggtgatggcc ctgcaaggct gtgggctccg acctcaccgg 60
 gagtcgacag cgagaggttc gccgaagagc gaggttcttg gcgagcgtg aacgccggcc 120
 ccaagcaccc cgggtcttta cacagtccgc gtccacagac tctgacgaag acgtggatct 180
 gctctcgctt tagctgctcg cggtcctcca gatcatgtcc gcgactcctg cgactccgcg 240
 cggaaaaaaa agtttgccag gcgtggactc aatgaccttt ccaagctgtg cgctcgtcg 300
 cctggaccgg gtctgagcgc ggctgccag gttgaccttt ctgcgaggagg gctttctcta 360
 cgtgctgttg tctactggg tttttgtcgg agccccacgc cctccggcct ctgattcctg 420
 gaagaaaggg ttgttcccct cagcaccccc agcatcccg aaaatgggga gcaaggctct 480
 gccagcgccc atcccgctcc accc 504

<210> 421
 <211> 814
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 38, 93, 94, 95, 422, 440, 467, 474, 508, 519, 529, 535, 554,
 557, 561, 565, 584, 594, 604, 619, 641, 655, 674, 679, 690,
 695, 702, 704, 706, 712, 716, 724, 734, 737, 740, 743, 780,
 781, 808, 813
 <223> n = A,T,C or G

<400> 421
 cggggacgga gctcggcgtg cttgctgctg gagggttntg gccctgcaag gctgtgggct 60
 ccgacctcac cgggagtcga cagcgagagg tttnncgaag agcgaggttc tggcgagcgc 120
 ctgaacgcgc gccccaagca ccccggtctt ttacacagtc cgcgtccaca gactctgacg 180
 aagacgtgga tctgctctcg ctttagctgc tcgcggtcct ccagatcatg tccgcgactc 240
 ctgcgactcc gcgcggaaaa aaaagtgtgc caggcgtgga ctcaatgacc tttccaagct 300
 gtgcgcctcg ctgcctggac cgggtctgag cgcggctgcc cagggtgacc ttttctgcgg 360
 aagggctttc tctacgtgct gttgctcatg ggtttttgtc ggagccccc aagcccttccg 420
 gncctttgat tcctggaaan aaaaggggtt ggttcccctt caagcanccc caancattcc 480
 ccgggaaaaa atgggggagc caaagggnnt ttggccaang gccccaatnc ccggnntcaa 540
 cccgttgggt tggnaanttt naccnaaatt aacttccttt cctncaaggc ccngggaaaa 600
 aacnttttcc cgggccacng ggggggaacc aaccttgcaa nggggccttg taccnggtct 660
 tcaaacggcg ggtnccaana acccttgccn ccatngaaac cnantnggaa cncctngggg 720
 gtntttccc aatngngcn cnaaaaaac aaccccggtt ccaaccattt aagggaaaa 780
 nggcgggggg gccccaaggg cccttttngg acnt 814

<210> 422
 <211> 375

<212> DNA

<213> Homo sapiens

<400> 422

```

ctgacgaaga cgtggatctg ctctcgcttt agctgctcgc ggtcctccag atcatgtccg 60
cgactcctgc gactccgcgc ggaaaaaaaaa gtttgccagg cgtggactca atgacctttc 120
caagctgtgc gcctcgctgc ctggaccggg tctgagcgcg gctgcccagg ttgacctttc 180
tgcgggaggg ctttctctac gtgctgttgt ctactgggt ttttgtcgga gcccacgcc 240
ctccggcctc tgattcctgg aagaaagggt tggccccctc agcaccccca gcatcccgga 300
aatggggag caaggctctg cagcgcccat cccgctccac cgtcgctgca gctcccaatt 360
actcttctgc aggcg                                     375

```

<210> 423

<211> 405

<212> DNA

<213> Homo sapiens

<400> 423

```

ggggacggag ctccgctgctg ttgctgctgg aggggtgatgg ccctgcaagg ctgtgggctc 60
cgacctcacc gggagtgcac agcgagaggt tcgccgaaga gcgaggttct gggcgagcgc 120
tgaacgccgg ccccaagcac cccgggtctt tacacagtcc gcgtccacag actctgacga 180
agacgtggat ctgctctcgc tttagctgct cgcggtcctc cagatcatgt ccgcgactcc 240
tgcgactccg cgcggaaaaa aaagtttgcc aggcgtggac tcaatgacct ttccaagctg 300
tgcgcctcgc tgcctggacc ggtctgagc gcggctgccc aggttgacct ttctgcggga 360
gggctttctc tacgtgctgt tgtctcactg ggtttttgtc ggacc                                     405

```

<210> 424

<211> 139

<212> DNA

<213> Homo sapiens

<400> 424

```

ctcgtgttca gctgtcagaa taacagccaa taaaaactac aggagcaaaa cctctcagga 60
aggtgcttta aaaaagatgc atgaggaaga acaccatcaa caaatgtcca tcttacaact 120
gcaactgata caaatgaat                                     139

```

<210> 425

<211> 273

<212> DNA

<213> Homo sapiens

<400> 425

```

ttctggctgg gaagcgcgat tgtggcttta aaccaccatc atggtctagc aaagaggcaa 60
agaccaagac caccaagaag cgccctcagc gtgcaacatc caatgtgtt gccatgtttg 120
accagtcaca gattcaggag ttcaaagagg ctttcaacat gattgatcag aacagagatg 180
gcttcacatga caaggaagat ttgcatgata tgccttgctt tctagggaag aatccccactg 240
atgcatacct tgatgccatg atgaatgagg ccc                                     273

```

<210> 426

<211> 56

<212> DNA

<213> Homo sapiens

<400> 426

```

gggaaccgcc attctgcctg ggaaccgcca ttctggccgg gaaccgccat tatgac 56

```

<210> 427

<211> 365

<212> DNA

<213> Homo sapiens

<400> 427


```

ggcgcattct tacctgtcgg ggtgcggcga gtgtctcacc tctctgcact tccaaggact 60
cttgtcatct gccttaggcg ggaaatgctg ttgctggatt gcaaccccgga ggtggatggg 120
ctgaagcatt tgctggagac aggggcctcg gtcaacgcac ccccgatcc ctgcaagcag 180
tcgcctgtcc acctagccgc aggaagcggc cttgcttgct ttcttctctg gcagctgcaa 240
acgggcgctg acctcaacca gcaggatgtt ttaggagaag ctccactaca caaggcagca 300
aaagttggaa gcctggagtg cctaagcctg cttgtagcca gtgatgccca aattgattta 360
tgtag                                     365

```

<210> 428

<211> 119

<212> DNA

<213> Homo sapiens

<400> 428

```

gagcgggtggc tgagaaatgt aaggattctg gaatacatat tccatgggac tttccttccc 60
tctcctgctt cctcttttcc tgctccctaa cctttcgccg aatggggcag caccactga 119

```

<210> 429

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 130, 185, 246, 256, 336, 361, 385, 412

<223> n = A,T,C or G

<400> 429

```

tttttttttt ttttttttga aataagtcaa agcattgttt atttatgaca tatttacata 60
tttacaaaac tgattttact caatacatca tcctgcgtaa tatcataaaa tgaacaccat 120
atcctgggan taaaaatcca tatttcttaa taatttatgt atagcccaac ttttagaaca 180
tagantatta tcaatttggc ttcccaaact acaaagtcct gtttataatt ttttctagcc 240
aaggancaga gtaggntcaa caggcatatt aaagtaattt agttaaccct gaggtaatta 300
ctaacttggc ataatttttg aatggggtat atatanacac ctttccatct ggcacttagg 360
ntacttatta ctattcacac tacnnttttg gtatttatcc acctcaattt tncaacttcc 420
t                                     421

```

<210> 430

<211> 481

<212> DNA

<213> Homo sapiens

<400> 430

```

gggtagccgc ttttcgtcga ctcttaccgg ttggtgggac cagctgcgcc gcggctcaca 60
gctgacgatg ggggacccca gcaagcagga catcttgacc atcttcaagc gcctccgctc 120
ggtgcccact aacaaggtgt gttttgattg ttggtgcaaa aaatcccagc tgggcaagca 180
taacctatgg agtggtcctt tgcattgatt gctcagggtc ccaccggtca cttggtgttc 240
acttgagttt tattcgatct acagagtggg attccagctg gtcattggtt cagttgcgat 300
gcatgcaagt cggaggaaac gctagtgcac ctcccttttt tcatcaacat ggggtgtcca 360
ccaatgacac caatgccaaag tacaacagtc gtgctgctca gctctatagg gagaaaatca 420
aatcgctcgc ctctcaagca acacggaagc atggcactga tctgtggcct gatagtgtgtg 480
t                                     481

```

<210> 431

<211> 136

<212> DNA

<213> Homo sapiens

<400> 431

```

ggggtaagtt tagaaatacg gctgggcatg tccagccctg accacggcca gctctggagg 60
gctgtccttt ggctgtaccc acttgggaaga gaaagaaaaa gaaaaaaaaa aaaaaaaaaa 120
aaaaattttt tttttt                                     136

```

<210> 432
 <211> 578
 <212> DNA
 <213> Homo sapiens

<400> 432
 aaacaacaaa caccagaaaa attacctata ccaatgatag caaaaaacct tatgtgtgaa 60
 ctcgatgaag actgtgaaaa gaatagtaag agggactact taagttctag ttttctatgt 120
 tctgatgatg atagagcttc taaaaatatt tctatgaact ctgattcatc ttttcctgga 180
 atttctataa tggaaagtcc attagaaagt cagcccttag attcagatag aagcattaaa 240
 gaatcctctt ttgaagaatc aaatattgaa gatccactta ttgtaacacc agattgccaa 300
 gaaaagacct caccaaaagg tgtcgagaac cctgctgtac aagagagtaa ccaaaaaatg 360
 ttaggtcctc ctttgagggt gctgaaaacg ttagcctcta aaagaaatgc tgttgctttt 420
 cgaagtttta acagtcatat taatgcatcc aataactcag aaccatccag aatgaacatg 480
 acttcttttag atgccaatgg atatttcgtg tgccctacagt ggttcatatc ccatggctat 540
 aaccctact caaaaaagaa gatcctgtat gccacatc 578

<210> 433
 <211> 229
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35, 37
 <223> n = A,T,C or G

<400> 433
 gcctaggtgc ccaggtatg atgagtctgc ttttnangga ggtagggaat gacatcttcc 60
 ttggacccaa agcttaaaag taatgtatgc tttgctgacc actgtttgtt aggccttaaa 120
 caacattcac tgtggtggtg tcaggcacac tgctatgtgc atcaattatt tttttgcttt 180
 ccaaacagaa tctctggggc acaagtttta cactcaagct aagtataac 229

<210> 434
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 434
 tgggtacgcct gcaggtaccg gtccggaatt cccgggtcga cccacgcgtc cggcgctcatg 60
 gagctgacct ggttcccatc tactcctttg gagagaatga agtgtacaag cagggtgatct 120
 tcgaggaggg ctccctggggc cgatgggtcc agaagaagtt ccagaaatac attggtttcg 180
 ccccatgcat cttccatggt cgaggcctct tctcctccga cacctggggg ctggtgccct 240
 actccaagcc catcaccact gttgtgggag agcccatcac catccccaag ctggagcacc 300
 caaccagca agacatcgac ctgtaccaca ccatgtacat ggaggccctg gtgaagctct 360
 tcgacaagca caagaccaag ttcggcctcc cggagactga ggtcctggag gtgaactgag 420
 ccagccttcg gggccaattc cctggaggaa ccagctgcaa atcactttt tgctctgtaa 480
 atttgaagt gtcatgggtg tct 503

<210> 435
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 435
 gcgctcatgga gctgacctgg ttcccatcta ctccctttgga gagaatgaag tgtacaagca 60
 ggtgatcttc gaggagggtc cctggggccg atgggtccag aagaagttcc agaaatacat 120
 tggtttcgac ccatgcatct tccatggtcg aggcctcttc tctccgaca cctggggggt 180
 ggtgcctact ccaagcccat caccactgtt gtgggagagc ccatcaccat cccaagctg 240
 gagacca 248

<210> 436
 <211> 457
 <212> DNA
 <213> Homo sapiens

<400> 436
 atcttgtctc ttttcatcgt gatggtgtga tgctgacgag aatatcttat gctttcttca 60
 gcctgtttgca atctgagcca atgattttct ttgcaactgat cctttctact ctggagagaa 120
 gctcttttga cacagatcct gccccgttta atagactcca gctgctggca ctgccttctg 180
 agttctttca cttccgaatt cttatcgctc tgcagcccca ccacagtcaa tgactaagtt 240
 cctctggact ttcacatgga tcgtaataga caacttcac cgtgttttct taccagaccc 300
 taaaatgtgc ctccaagaca gtcgtgggaa cagtatggag ccagcagcag aagccactca 360
 cgaaccaatg gaggagaaca actcagaaac agacccaagt caatctaagg tttaactttt 420
 ataagtcttt caagagagtc caactgtgta gtaagca 457

<210> 437
 <211> 589
 <212> DNA
 <213> Homo sapiens

<400> 437
 gcttccaggt ctccttccag catccacaca agtacctgct ccactacctg gtttccctcc 60
 agaactggct gaaccgccac agctggcagc ggaccctgt tgccgtcacc gcctggggcc 120
 tgctgcggga cagctaccat gggcgctgt gcctccgctt ccaggcccag cacatcgccg 180
 tggcggtgct ctacctggcc ctgcaggtct acggagttga ggtgcccgcc gaggtcgagg 240
 ctgagaagcc gtggtggcag gtgtttaatg acgaccttac caagccaatc attgataata 300
 ttgtgtctga tctcattcag atttatacca tggacacaga gatcccctaa ggtcctggcc 360
 caggcctgcc caaagagaag cccaggatgg tcggctgcct ggggacattg tcaccacgtc 420
 gccatgacgg ctggtcccca caggaccagc tgggaggact ggttgtgctg ctggagaagg 480
 gctggagaag gcaatggcat gctgccgctt tgccagtcce taaaagtcgc ggtgcagggtg 540
 atggtgggag ccgcgcctcc agcgggcagg ccgggagtgt actgtgtgc 589

<210> 438
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 438
 cgcttccagg tctccttcca gcatccacac aagtacctgc tccactacct ggtttccctc 60
 cagaactggc tgaaccgcca cagctggcag cggacccctg ttgccgtcac cgcctggggc 120
 ctgctgcggg acagctacca tggggcgctg tgccctcgct tccaggccca gcacatcgcc 180
 gtggcggtgc tctacctggc cctgcaggctc tacggagtgt aggtgcccgc cgaggctcag 240
 g 241

<210> 439
 <211> 221
 <212> DNA
 <213> Homo sapiens

<400> 439
 ttcagctctg caaactgtgt cacatccttt cctggaaggg cactgaccat ccgtgcactg 60
 ccaataacct agagagctgc tccgtttcac ttccacccca ggactttatc aactgtttca 120
 agttctgaat cccagcacat gacaacactt cagaagggtc cccctgctga ctggagagct 180
 gggaaatagc catttggaac cttcatttgt aaatagtgt c 221

<210> 440
 <211> 228
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 191

<223> n = A,T,C or G

<400> 440

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gagctttctt aataaccgta cttctcaaaa tcagagtttt actgtttcaa taaatgttca 60
ccctagattg taagtttttt gttgttgagc cctagatttt tttctactag tgtaaatctg 120
tattccctcc aagtatggtg ataaggggac tgagtcttat ttacatttgt acaatcacta 180
ctttacctgt ngatattgca gtaagtcttt tgagccctat taaacctg 228

```

<210> 441

<211> 531

<212> DNA

<213> Homo sapiens

<400> 441

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tttcttaata accgtacttc tcaaaatcag agttttactg tttcaataaa tgttcaccct 60
agattgttaag ttttttggtg ttgagcccta gatttttttc tactagtgtg aatctgtatt 120
ccctccaagt atgggtataa ggggactgag tcttattttac atttgtacaa tcactacttt 180
acctgttgta tttgcagtaa gtcttttgag ccctatttaa cctgtcaatt ttcttgctct 240
gtcagaaaac tgagattttg gctcaaaaat ggatgttatt aacaaagggg aacaatatag 300
atgtcttagt acaaagaaaa tgaaatgtaa gaggagattg tctggagttc aggggataga 360
gtgtcaagtc ttaaatgggt acatcttttt gctaagtgtt actcagaata tagttacaaa 420
tatggtactt aaatatctag ctgaaatttg tttgtcccat gagcttctca catgagtcta 480
ctgggcaatt ttatgtgagt tttggtcaaa attggtaatc tcttttatct t 531

```

<210> 442

<211> 147

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 112

<223> n = A,T,C or G

<400> 442

```

aacttggttac ccaataacaa tttaatgtta aatttggtt tcttctgtgt cccagcctct 60
taaattaata gatgggcctt tccattatca ttatgaccgg acattgtaaa gnacttaagg 120
taacaccag ttttctatta cttgcc 147

```

<210> 443

<211> 518

<212> DNA

<213> Homo sapiens

<400> 443

```

acctgaagaa tattagaaga aattgtgcac cctccacaaa acatacaaag tttaaaagtt 60
tgatctttt tctcagcagg tatcagttgt aaataatgaa ttaggggcca aaatgcaaaa 120
cgaaaaatga atcatctaca tgtagttagt aatttctagt ttgaactgta attgaatatt 180
gtggcttcat atgtattatt ttatattgta cttttttcat tattgatggt ttggacttta 240
ataagagaaa ttccatagtt tttaatatcc cagaagtgag acaatttgaa cagtgtattc 300
tggaatacaa cacactaact gaacagaagt gaatgcttat atatattatg atagccttaa 360
acctttttcc tctaattgct taactgtcaa ataattataa ctttttaaag cataggacta 420
tagtcagcat cttagactga gaggtaaaca ctgatgcaat tagaacagggt actgatgctg 480
tcagtgttta acactatgtt tagctgtggt tatgctat 518

```

<210> 444

<211> 76

<212> DNA

<213> Homo sapiens

<400> 444

gctgctcatg agcagcatgg acgacctgat acgccactgt aacgggaagc tgggcagcta 60
caaaatcaat ggccgg 76

<210> 445

<211> 308

<212> DNA

<213> Homo sapiens

<400> 445

gagcattatg agcattatgt cagaatagaa tagaattggg gttcgatcctt aacaggccag 60
aaatgccttg gtttttttgg tttgtttttg tttttgtttt tttatcaaat cctgcctgac 120
tgtctgcttg ttttgccctac catcgtgaca tctccatggc tgtaccacct tgcgggtag 180
cttatcagac tgatgttgac tgttgaatct catggcaaca ccagtcgatg ggctgtctga 240
cattttggta tctttcatct gaccatccat atccaatgtt ctcatttaaa cattaccag 300
catcattg 308

<210> 446

<211> 530

<212> DNA

<213> Homo sapiens

<400> 446

tgtgttaatg ttttctagca tgtactctgg tttcaacaga cacaatttta tatgttaacc 60
cagttttctt gccgttctgt aagtgtttta ttcttagtgt gatttttttc cattgggatg 120
tttttgattg aacttggtca tttgtttttg cttgggagga aaataaaca ttttactttt 180
ttccttttag agcattatga gcattatgtc agaatagaat agaattggg ttcgatctta 240
acaggccaga aatgcctggg tttttttggg ttgtttttgt tttgtttttt ttatcaaatc 300
ctgcctgact gtctgcttgt tttgcctacc atcgtgacat ctccatggct gtaccacctt 360
gtcgggtagc ttatcagact gatgttgact gttgaatctc atggcaacac cagtcgatgg 420
gctgtctgac attttggtat ctttcatctg accatccata tccaatgttc tcatttaaac 480
attaccagc atcattgttt ataatcagaa actctggtcc ttctgtctgg 530

<210> 447

<211> 104

<212> DNA

<213> Homo sapiens

<400> 447

ggacgtgcct ggaaccacct cgtccacgtc cacgtccacc tgggggcctc gggaggctag 60
gcccctctc aaaggccac cagcccggcg ctcatgctga gcc 104

<210> 448

<211> 417

<212> DNA

<213> Homo sapiens

<400> 448

tatctttcat ctgaccatcc atatccaatg ttctcattta aacattaccc agcatcattg 60
tttataatca gaaactctgg tccttctgtc tggtggcact taaagtcttt tgtgccataa 120
tgcagcagta tggaggaggg attttatgga gaaatgggga tagtcttcat gaccacaaat 180
aaataaagga aaactaagct gcactgtggg ttttgaaaag gttattatac ttcttaacaa 240
ttcttttttt cagggacttt tctagctgta tgactgttac ttgaccttct ttgaaaagca 300
ttcccaaaat gctctatttt agatagtta acattaacca acataatttt ttttagatcg 360
agtacagcata aatttctaag tcagcctcta gtcgtggttc atctctttca cctgcat 417

<210> 449

<211> 630

<212> DNA

<213> Homo sapiens

<400> 449

tttttttttt tttttttttt ttggaatcgc aagaattccc aggcctctt tttatttaca 60

```

gtgataccaa accatccact tgcaaattct ttgggtctccc atcagctgga attaagtagg 120
tactgtgtat ctttgagatc atgtatttgt ctccactttg gtggatacaa gaaaggaagg 180
cacgaacagc tgaaaaagaa ggggtatcaca ccgctccagc tggaatccag caggaaacctc 240
tgagcatgcc acagctgaac acttaaaaga ggaaagaagg acagctgctc ttcattttatt 300
ttgaaagcaa attcatttga aagtgcataa atgggtcatca taagtcaaac gtatcaatta 360
gaccttcaac ctaggaaaca aaattttttt ttctatttta taatacacca cactgaaatt 420
at ttgccaat gaatcccaaa gatttggtag aaatagtaca attcgtattt gctttcctct 480
ttcctttctt cagacaaaca ccaaataaaa tgcagggtgaa agagatgaac cactgactaga 540
ggctgactta gaaatttatg ctgactcgat ctaaaaaaaaa ttatgttggg taatgtttaa 600
ctatctaaaa tagagcattt tgggaatgct                                     630

```

<210> 450

<211> 596

<212> DNA

<213> Homo sapiens

<400> 450

```

tttttttttt tttttttttt tttggggtaa aagttatatc ttattgccat gctacaaaat 60
gtatgaagtt ggcactgata gggagaaata gagaacaaag ggtgggaagg gatagaggga 120
aaattatgtt gttacatata caacaagggt ttattttaat taacagtggg tacgttttgc 180
caatattaaa aatgcaaacc aaaattttaa atgctgatct gaaacagcat taagatacaa 240
tgtatgcata gtacagtatc acttatgtct ttttattaga gaaatatgga atgtttataa 300
aagaaattaa ccatgggggt aaaattcata tttcatatac aatttggcaa tggtagtccc 360
actgttggac aattttttat aaaagaaaaa attaaaaatc taataagcta cctttataca 420
aagttgctat atttatgcct ttacgtagga aaaaaacatt tataatgcaa attaggacat 480
acaatagtct tacaatacta tacaatgtaa tgaaaataaa acataacaca aagtttgtcc 540
tttataaaat gtatattttg cattactaat gcaaatgtgg cacactgggtg actact 596

```

<210> 451

<211> 559

<212> DNA

<213> Homo sapiens

<400> 451

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tggcgggttg ctttccaaaa tggcgcggtg gctgaaggct gcagccgcga atgccgtagg 60
gcttttttcc agacttcaag ctccatttcc aacagtaaga gcttcttcca catcacagcc 120
cttgatcaa gtgacagggt ctgtgtggaa cctgggtcga ctcaaccatg tagccatagc 180
agtgccagat ttggaaaagg ctgcagcatt ttataagaat attctggggg cccaggtaag 240
tgaagcggtc cctcttcctg aacatggagt atctgttgtt tttgtcaacc tgggaaatac 300
caagatggaa ctgcttcac cttgggacg tgacagtcca attgcagggt ttctgcagaa 360
aaacaaggct ggaggaaatgc atcacatctg catcgagggt gataatatta atgcagctgt 420
gatggatttg aaaaaaaaag aagatccgca gtctaagtga aggggtcaaa ataggagcac 480
atggaaaacc agtgattttt ctccatccta aagactgtgg tggagtcctt gtggaactgg 540
agcaagcttg acttatatt                                     559

```

<210> 452

<211> 638

<212> DNA

<213> Homo sapiens

<400> 452

```

tggcgggttg cgttccaaat ggcgcgggtg ctgaaggctg cagccgcgaa tgccgtaggg 60
cttttttcca gacttcaagc tccatttcca acagtaagag cttcttccac atcacagccc 120
ttggatcaag tgacagggtc tgtgtggaac ctgggtcgac tcaaccatgt agccatagca 180
gtgccagatt tgaaaaaggc tgcagcattt tataagaata ttctgggggc ccaggttaag 240
gaagcgggtc ctcttcctga acatggagta tctgttgttt ttgtcaacct gggaaatacc 300
aagatggaac tgcttcatcc attgggacgt gacagtccaa ttgcagggtt tctgcagaaa 360
aacaaggctg gaggaatgca tcacatctgc atcgagggtg ataattataa tgcagctgtg 420
atggatttga aaaaaaaaag agatccgcag tctaagtga ggggtcaaaa taggagcaca 480
tgaaaaacca gtgatttttc tccatcctaa agactgtggg ggagtccttg tggaaactgga 540
gcaagcttga cttatatttg caagcaacta aattaattga cctgaaaaag cctatcaaat 600
actatcaaaa tgtactatga cattgagtc ttactgc                                     638

```

<210> 453
 <211> 57
 <212> DNA
 <213> Homo sapiens

<400> 453
 gactacattt ggggatgatg cattccttta agattgaatg attctgccct tgggcag 57

<210> 454
 <211> 538
 <212> DNA
 <213> Homo sapiens

<400> 454
 gccgggctgc taattctgtt taattgttcc tgggctaaaa agaattagaa ggaagctgtc 60
 tgtttccac tgcggttatg tttcagtaaa ttagacgtac tttctgatga atactaatta 120
 gccactgagc atttgacccc actgtctttg ctggttgtgt gcagaacagc tgccaagttg 180
 cccaagacc tcgctatccc atccccctct ctgtctttcc acttttgggc ttcttttggc 240
 tagattagaa gagatttcag ttccgagaaa gtaaaagggtg atccaaggaa gtaatcaccg 300
 agtgtctcat ggtttttcct tgttgacaaa attcaaaact cacacatgtg tagtctaattg 360
 atagcgctag gatttaaaga aagtgtttta gtgctgtgct tatttaggac tacatttggg 420
 gatgatgcat tcctttaaga ttgaatgatt ctgcccttgg gcagagctcc caattaggga 480
 ggattaggta agctttttgt ggcgatgggt aataccattc ttttcctcat tgtgcctg 538

<210> 455
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 455
 tgaatcagta ggaatgtggg gaagggagtg aggggagacc ccctccttga ctcagcagtg 60
 gtgacggtcg gtgtgtcctg cagacctgaa gccaaagatca agggggcttg agcaccagga 120
 gccccgcag ttgctgaatg accagcggag ggcaggtgcc agcctgtggc aaaataggaa 180
 agaaaaggac aggatgggga cttcaccatt ttttcagcc ttaaattgtt ccttaaacct 240
 tcatgtcctt ttctctaatt tgtgttcttg tttggtaaaa taaaaaagtt tgtaaccctg 300
 agttctctaa agatatacat tcttttttac tggtttgtga agtcagaagg atgagagctg 360
 ctatttcttg gaaccgtgca ataaatatta gcataattcag tctcgttct gcctagagga 420
 cctatttgc tttctttatc tcgtaaccac taactcacag gacattaacc aggggtgtcca 480
 agaacagtct gggaaagttt tgataattac ttcagcattg ctgtgtgatg ggagacattg 540
 ttttaaaa 548

<210> 456
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 456
 tcagtgggag tgaatcagta ggaatgtggg gaagggagtg aggggagacc ccctccttga 60
 ctcagcagtg gtgacggtcg gtgtgtcctg cagacctgaa gccaaagatca agggggcttg 120
 agcaccagga gccccgcag ttgctgaatg accagcggag ggcaggtgcc agcctgtggc 180
 aaaataggaa agaaaaggac aggatgggga cttcaccatt ttttcagcc ttaaattgtt 240
 ccttaaacct tcatgtcctt ttctctaatt tgtgttcttg tttggtaaaa taaaaaagtt 300
 tgtaaccctg agttctctaa agatatacat tcttttttac tggtttgtga agtc 354

<210> 457
 <211> 570
 <212> DNA
 <213> Homo sapiens

<400> 457
 cttttatagg attcatttaa aggtgaataa aataatgaat gtgaaactca tattagagct 60

```

taacatatag tagtaatgat ttataaaata tttgcctccc ttagaccaga gcagctacta 120
aatttgattt taataataag ataaacaaat taataagatc acaaagttgt tatgtaataa 180
cataaacagc tgtgttaaaa ttagtagtga cccatatcaa agaaacacaa ttacaaagag 240
attaagaagg ataatattta aagtgtagct ttactcagtc ttttgtgtga aggtattctt 300
agggataaaa caatgtattt ggaagctgct ggaagaatat ggtgcaaaga atatttttaa 360
atgcttgtga atgttctgta accacaaaca tagatacata acagatcaaa gacatatttt 420
agactgccat gtggacttaa atcatgggag gcggaagagt ggctcccaa agaggactat 480
atcgtaatac cagaacttgt gaatatatta ctttaagtgg caaaagggac tttacagatg 540
tgattaaaat taaggacctt gaaatggggg

```

<210> 458

<211> 540

<212> DNA

<213> Homo sapiens

<400> 458

```

aactagactt cttttataggt attcatttaa aggtgaataa aataatgaat gtgaaactca 60
tattagagct taacatatag tagtaatgat ttataaaata tttgcctccc ttagaccaga 120
gcagctacta aatttgattt taataataag ataaacaaat taataagatc acaaagttgt 180
tatgtaataa cataaacagc tgtgttaaaa ttagtagtga cccatatcaa agaaacacaa 240
ttacaaagag attaagaagg ataatattta aagtgtagct ttactcagtc ttttgtgtga 300
aggtattctt agggataaaa caatgtattt ggaagctgct ggaagaatat ggtgcaaaga 360
atatttttaa atgcttgtga atgttctgta accacaaaca tagatacata acagatcaaa 420
gacatatttg agactggcat gtggacttaa atcatgggag gcggaagagt ggctcccaa 480
agaggactat atcgtagtac cagaacttgt gaatatatta ctttaagtgg caaaagggac 540

```

<210> 459

<211> 622

<212> DNA

<213> Homo sapiens

<400> 459

```

acttaagatt ttttcaatgt aagaaaaatg caatgaaata atagctgcaa ataccacta 60
ctaacaattg cttggccttc ttatatagac ctcccgaggt tctcatcttt tacatttcag 120
gagtagaatc agttaaaaac taatctttat atgtaaggga tgagagagag aaaggaggag 180
gtatgtgtat gcacacatgt gtgtgtgtgt ggtgggtagt aattttaatt caatgattta 240
ctagagttcg atgtcgtttg ctgataaatg aagcaggagg aagagccagg tttggagggg 300
acgagagaat gagttccatt tgtctcatat agaagttgaa gtaactgagt gatgatgggt 360
agagatgtcc ctacggggta gccacagtat tttatttact tttatttcac cacatgcagc 420
aaggagcttt gttctccaaa atgctgtcaa ttatttttct aaattacagg tttgattgct 480
tcaactgtatt ttcattgtctc attactacct ttacgcttaa aaccagaaac tgtgccacag 540
cgttaaagat tctgctaact tttaaaatac agaactctgg agatgccata attagattgc 600
agatttatga gtcttctgga ta

```

<210> 460

<211> 378

<212> DNA

<213> Homo sapiens

<400> 460

```

acaatgggtt tgttctctgc cttataaatt gggggattct agaggagtct gcttttctcc 60
caagaaggac ctcttctttt cttgcttttc atatgctctc cttgagatat cttgggtatt 120
ctcatggctt taaatagcac ttatatccag aagactcata aatctgcaat ctaattatgg 180
catctccaga gttctgtatt ttaaaagtta gcagaatctt taacgctgtg gcaaagtttc 240
tggttttaag cgtaaaggta gtaatgagac atgaaaatac cgtgaagcca tcaaacctgt 300
aatttaaaaa aataattgac agcatttttg agaacaaagc tccttgctgc atgtggggaa 360
taaaaagtaa ataaaata

```

<210> 461

<211> 396

<212> DNA

<213> Homo sapiens

<400> 461

```

ccttctgctc tacgagaact atgggcagtc ggaaacggga ctaatttgtg ccacctactg 60
gggaatgaag atcaagccgg gtttcatggg gaaggccact ccaccctacg acgtccaggt 120
cattgatgac aagggcagca tcttgccacc taacacagaa ggaaacattg gcacacagaat 180
caaacctgtc aggcctgtga gcctcttcat gtgctatgag ggtgaccagc agaagacagc 240
taaagtggaa tgtggggact tctacaacac tggggacaga ggaaagatgg atgaagaggg 300
ctacatttgt ttcctgggga ggagtgatga catcattaat gcctctgggt atcgcatcgg 360
gcctgcagag gttgaaagtg ctttgggtga gcaccc 396

```

<210> 462

<211> 529

<212> DNA

<213> Homo sapiens

<400> 462

```

tttttttttt tttttttttt ttttttcggt agaaatgggg ttttaccatg ttgccagggc 60
tagtctcgaa ctctctgggt taagcaatcc acacacctcg cttccaaaaa agctgggggt 120
acaggtgtga gccatcacac ccagcctaata atacaatctc aaatattttg ttttaaatca 180
ttacttactg aactataaag taaaactaat ttttagacag cattttaata catattttac 240
tttttaaggg ttataaagaa aacactaaca atatggaaaa tgcatattta aagaaaattg 300
aaatcaaata taatcttatg gctcaaaatc attagtgtta atattttgat acctaccttc 360
cccatctttt gcctacgaat actgggttaa gagtttttaa atagttttgt ccttgctttg 420
taattttcgt atgttctcac aaaagagaag ctgaggaagc atttggctat tgggaaaatt 480
aattaataga tgtaactta ccaagatata ctataataga ttagacagc 529

```

<210> 463

<211> 485

<212> DNA

<213> Homo sapiens

<400> 463

```

tttaaaagtaa atgactcatg ttgaggaaag aggttattac ctaaactctgg actgcggcct 60
aaggaaattc ccttaacctc tattctggtt toctatttca aaatggttgt gtaggaggct 120
aatggaagtt agttggttgc tatgatccaa aaactctatg ggtgaaaatt taaagtacag 180
atttcttatt taatcgtaa acagcttttag ttgtgagttc tatgtcctgg tataatggat 240
cctgattatt aatgcattaa atatgcattc agtgaattca aatgttgcta attattcttt 300
taccaatcaa agaaaactca aagcatggga ttaagagggg ttggccaaaa gtatttggac 360
caggttgcat accaggacca tgaagaaatt gagaacagag cctacatctt ttatactatg 420
gctcaaagca agggctgttg gaatgtgctg cttctccaaa gtaggactta tgaaaaaatg 480
aggg 485

```

<210> 464

<211> 576

<212> DNA

<213> Homo sapiens

<400> 464

```

tattcagcatc tgtagaggag aaagcagaat aagcactggg gtatttgata gacttgagaa 60
taagagaacc ccaaagtgtg caataggtat ttgctagaaa gttcagtggg tcagggtggg 120
aatagcagct gaaattggca gggattttga ctattcaaat aatgggtgag tagaagggat 180
ctgtggaata gccattatga cctcttgaaa ccaggcaact aggggggtccc ttctagaatg 240
atgctgcgta cctaagaaat tcagtaggga gtggagtcaa aatgatcaga aaagatagag 300
atagttgtgg caaaagatga tctaagagtg tgtgtgtatg tgtgtgagtg agagagagaa 360
atctcaagaa atagtggcta tgggtgtgaa cactacatga aagcaacctt aaacagctgt 420
gtgaagttag aaaaggtact ctggaccata ttgccctgta aaagctcagg aaaactaatt 480
ttgcataaac ataagcaaca ggaattattt gctgtcaaat ctcattcaga gttattgtac 540
aaaaaaagag acaagaatcc ctatagacaa tgaaag 576

```

<210> 465

<211> 459

<212> DNA

<213> Homo sapiens

<400> 465

```

ttatctaacg tttctaacag ggggtgtaat gatattagca gcaagagcta tgagaaataa 60
cttttagacat tatttcattg aaccttccca actgaaatta ttttatgatg ttataacatg 120
gatagttaact caagtagcaa taagttacac agttgtgccca tttgtgcttc tttctataaa 180
accatcactc acgtttttaca gctcctggta ttattgcctg cacattcttg gtatccttagt 240
attatcgttg ttgccagtga aaaaaactca aagaaggaag aatacacatg aaaacattca 300
gctctcaciaa tccaaaaagt ttgatgaagg agaaaattct ttgggacaga acagtttttc 360
tacaacaaac aatgtttgca atcagaatca agaaatagcc tcgagacatt catcactaaa 420
gcagtgatcg ggaaggctct gagggctgtt tttttttt 459

```

<210> 466

<211> 250

<212> DNA

<213> Homo sapiens

<400> 466

```

tatacccagg atattatcta acgtgtctaa caggggtgtt aatgatatta gcagcaagag 60
ctatgagaaa taactttaga cattatttca ttgaaccttc ccaactgaaa ttattttatg 120
atgttataac atggatagta actcaagtag caataagtta cacagttgtg ccattttgtg 180
ttctttctat aaaaccatca ctcacgtttt acagctcctg gtattattgc ctgcacattc 240
ttggtatctt 250

```

<210> 467

<211> 509

<212> DNA

<213> Homo sapiens

<400> 467

```

atactttatc tattttcggg caacttgctt ccctcatgaa ccatggacat ctcaatgtgc 60
cattacacac aggagttata tgtaggtat tgtagtccca ttttacagaa gagaatccgc 120
aaggttcaca gagtgaatca taggcataaa gtccttcagg tggtaaatgg caaggctggg 180
gttccaacca gtcttctctg gctccaggga ctggctcctt cagactacat ttcaccagct 240
gcctccagga acagaagacg ggaattcacc tttcatgcga catataccag aaacgtggac 300
ctcagccacc ctgggtccta tttgatcccc agggccttca tttggccctc gaataaaaaac 360
cttatttttt tatctcctta cctttcccag aattcatagt aggacttggc tgggtgaaagg 420
ctgggttgctg agaaggctac agtgtggcta ggctgcagtt ccctgttatt acattgcccc 480
aggtattaat attgtatatt taggcagct 509

```

<210> 468

<211> 554

<212> DNA

<213> Homo sapiens

<400> 468

```

ggatttcaaa tctgagatga tactttatct attttcgggc aacttgcttc cctcatgaac 60
catggacatc tcaatgtgcc attacacaca ggagttatat gttagggtatt gttgtcccat 120
tttacagaag agaatccgca aggttcacag agtgaatcat aggcataaag tccttcagggt 180
ggtaaatggc aaggctgggt ttccaaccag tcttctctgg ctccaggggac tggctccttc 240
agactacatt tcaccagctg cctccaggaa cagaagacgg gaattcacct ttcattgcgac 300
atataccaga aacgtggacc tcagccaccc tgggtcctat ttgatcccca gggccttcat 360
ttggccctcg aataaaaacc ttattttttt atctccttac ctttccaga attcatagta 420
ggacttggct ggtgaaaggc tggttgctga gaaggctaca gtgtggctag gctgcagttc 480
cctgttatta cattgcccc ggtattaata ttgtatattt aggcagctgt tctcatccgt 540
gcctggcagt gaaa 554

```

<210> 469

<211> 537

<212> DNA

<213> Homo sapiens

<400> 469

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attctgaccc cattgtgcac cttagtcac gcaaactttc cagttgctcc ttgccaaaac 60
tcaagaataa aagggcccaa gctagagagg ctgtcctcac aagcatcagc tgctgggggc 120
ttccactcat ttctctctga aacaacagag aaagagacca tctctcattc gcagagcagc 180
ccaaggcctt ctgaggagac tgtgagtctc ctctaagtca tttctctctg cttttagtagca 240
gtggagctac caagggtgag atgagcaggt tgagaggcct ctgaagcctg ctgggcacaa 300
tgctctgtga taagtttcag ctccactgga gcttatcatc caccagcaat cgacttcatg 360
gctgctgctc agaggcccta ggtgctgcgc tgctcactgc cctcacgtct ctgggacttc 420
cacacataaa gccatctctt tccattgcac tatggcactt gtagggagga tcccacactt 480
agggcccaaa atgagaccat ttgagtcaaa tttctaattg tctttcaaat tttatta 537

```

<210> 470

<211> 492

<212> DNA

<213> Homo sapiens

<400> 470

```

attctgaccc cattgtgcac cttagtcac gcaaactttc cagttgctcc ttgccaaaac 60
tcaagaataa aagggcccaa gctagagagg ctgtcctcac aagcatcagc tgctgggggc 120
ttccactcat ttctctctga aacaacagag aaagagacca tctctcattc gcagagcagc 180
ccaaggcctt ctgaggagac tgtgagtctc ctctaagtca tttctctctg cttttagtagca 240
gtggagctac caagggtgag atgagcaggt tgagaggcct ctgaagcctg ctgggcacaa 300
tgctctgtga taagtttcag ctccactgga gcttatcatc caccagcaat cgacttcatg 360
gctgctgctc agaggcccta ggtgctgcgc tgctcactgc cctcacgtct ctgggacttc 420
cacacataaa gccatctctt tccattgcac tatggcactt gtagggagga tcccacactt 480
agggcccaaa tg                                     492

```

<210> 471

<211> 509

<212> DNA

<213> Homo sapiens

<400> 471

```

aagacattca aattagccac cactggagta gatgacctaa aagttcttac aactctcaat 60
tatacccagt gatgtctcga ttagcactta ttataaaaat taaaatttat aattcaacat 120
ttataccatc cagaaaaagt taaaatatat taatagccta tttctcttca ataaagcgta 180
tatataactc tatttgttaa tgtttctatt ctccatgaca ttctgtttat agataagccc 240
tatgtctatt ctagtcaagt gctaactctt tgaatgaagc tgaattaggt agtcaactac 300
tagatgtatc ctgaaaagca agtaatgtgt atatttcatt tattttatac ataagagcta 360
cagactgttg tcacaatctt ttcaagggct attaaattca ttattttaac taacattttt 420
gaacatctgt cttatgttgt taattgagga catttctgaa tgtataacaa cataagaata 480
atagttgtta aacttcaaag agatgacag                                     509

```

<210> 472

<211> 649

<212> DNA

<213> Homo sapiens

<400> 472

```

caaattagcc accactggag tagatgacct aaaagttctt acaactctca attataccca 60
gtgatgtctc gattagcact tattataaaa attaaaaatt ataattcaac atttatacca 120
tccagaaaaa gttaaaaatat attaatagcc tatttctctt caataaagcg tatatataac 180
tctatttgtt aatgtttcta ttctccatga cttctgtttt atagataagc cctatgctat 240
ttctagtcaa gtgctaattc cttgaatgaa gctgaattag gtagtcaact actagatgta 300
tcctgaaaag caagtaattg gtataattca tttattttat acataagagc tacagactgt 360
tgtcacaaat ttttcaaggg ctattaaatt cattatttta actaacattt ttgaacatct 420
gtcttatgtt gtttaattgag gacatttctg aatgtataac aacataagaa taatagtttt 480
taaaacttcaa agagatgaca ggtaaatgag taaaggagaa atatgaaata tcacagaatt 540
ccttgacact aaatgatgtt ttgcaaatat tgaacagaat gatgtttgta aactttccac 600
tggttttcaa gagtcccaaa acattaggaa aatgtacatc acctaactt                                     649

```

<210> 473
<211> 494
<212> DNA
<213> Homo sapiens

<400> 473
atatacagaag taaaacaatt tttcttggtg actgctttgg taaaaaacag tttgatggat 60
agttttacat ttcactggac tagataaaaa atggtgctaa tttttatgta gcttgatgct 120
atagttgctt tggatcaaaa cttaatcctt aacccatata agatccttat tatataattt 180
tgtgatcagt aaaatgatat tttaaagagt gatcttaaaa atatgacctg gtcattgcac 240
aacgtttgca tttgaaatga atttttgtac tatagggtgg atatggagtt attcagtgca 300
agtgtgtgct taatatcaaa ccctatgcaa ggagctatgt ctagattttt ggtccgaatt 360
tgccctcttc aagcctacta gtgtgagatg gaaaaaaatc gattgctctt ttaatatatt 420
ttccattttg aaattctcga cacttgaatg aaggcagtag aagcctcttt ttggatttct 480
cttctaataa caaa 494

<210> 474
<211> 630
<212> DNA
<213> Homo sapiens

<400> 474
aaaacatttt tcttggtgac tgctttggta aaaaacagtt tgatggatag ttttacattt 60
cactggacta gataaaaaat ggtgctaata tttatgtagc ttgatgctat agttgctttg 120
gtatcaaaact taatacctaa cccatataag atccttatta tataattttg tgatcagtaa 180
aatgatatatt taaagagtga tcttaaaaaat atgacctggt cattgcacaa cgtttgcat 240
tgaaatgaat ttttgacta taggggtgat atggagttat tcagtgcagg tgtgtgctta 300
atatcaaaacc ctatgcaagg agctatgtct agatttttgg tccgaatttg cctccttcaa 360
gcctactagt gtgagatgga aaaaaatcga ttgctctttt aatattattt ccattttgaa 420
attctcgaca cttgaatgaa ggagtagag gcctcttttt ggatttctct tctaataaca 480
aaactttatt tagggaagg ttcctgtgac tatcgtaagt ttgttttgag cactgcattc 540
actttaaaat tctggaggaa caaaggctgg gcacataatc acaaagccca ggccacacaa 600
taattccggg gttgtatttt ctaagaacta 630

<210> 475
<211> 156
<212> DNA
<213> Homo sapiens

<400> 475
gggggagata aggcaaagag gcacttttgg atttctccat ctgagcagct ctgtgattca 60
ttatctgttc tagaaagcag cacacgcagt tccagcaaaa aaaaaaaaaa aaaaaaattt 120
tttttttttt cccccctttt tttttttttt ttcccc 156

<210> 476
<211> 579
<212> DNA
<213> Homo sapiens

<400> 476
attccgttgc tgtcggcggc cggttcccga tgagcctcct gttgcctccg ctggcgctgc 60
tgctgcttct cgcggcgctt gtggccccag ccacagccgc cactgcctac cggccggact 120
ggaaccgtct gagcggccta acccgcgccc gggtagagac ctgcgggga tgacagctga 180
accgcctaaa ggaggtgaag gctttcgtca cgcaggacat tccattctat cacaacctgg 240
tgatgaaaca cctccctggg gccgaccctg agctcgtgct gctgggcccgc cgctacgagg 300
aactagagcg catccactc agtgaaatga cccgcgaaga gatcaatgcg ctagtgcagg 360
agctcggctt ctaccgcaag gcggcgcccc acgcgcaggt gccccccgag tacgtgtggg 420
cgcccgcgaa gccccagag gaaacttcgg accacgctga cctgtaggtc cgggggcgcg 480
gcggagctgg gacctacctg cctgagtcct ggagacagaa tgaagcgctc agcatcccg 540
gaatacttct cttgctgaga gccgatgccc gtccccggg 579

<210> 477

<211> 472

<212> DNA

<213> Homo sapiens

<400> 477

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ggcttagcgg ataacaattt cacacaggag ctagcagaca ccacaagata ccaacagagc 60
ttctgaaaca gatacccata gcattggaga gaaaaacagc tcacagtctg aggaagatga 120
tattgaaaga aggaaagaag ttgaaagcat cttgaagaaa aactcagatt ggatatggga 180
ttggtcaagt cggccggaaa atattccccc caaggagtgc ctctaaacac ccgaagcgca 240
cggccaccct cagcatgagg aacacgagcg tcatgaagaa agggggcata ttctctgcag 300
aatttctgaa agatttcctt ccattctctgc tgcctctca tttgctggcc atcggattgg 360
ggatctatat tggaaaggcg gtgacaacct ccaccagcac cttttgatga agaactggag 420
tctgacttgg ttcgttagtg gattacttct gagcttgcaa catagctcac tg 472

```

<210> 478

<211> 355

<212> DNA

<213> Homo sapiens

<400> 478

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tctacactta aagcttttga gcaattccca tcgaccagag ttggtccgac cagccttggga 60
aaggtcactg aaaaatcttc aattggacta tgggtgacctc tatcttatac attttccatt 120
gtctgcaaag ccaggtgagg aagtgatccc aaaagatgac aatggaaaaa tactatttga 180
cacagtggat ctctgtgccca catgggaggc catggagaag tgtaaagatg cacgattggc 240
caagtccatc ggggtgtcca acttcaacca caggctgctg gagatgatcc tcaacaagcc 300
agggtcaag tacaagcctg tctgcaacca ggtggaatgt catccttact tcaac 355

```

<210> 479

<211> 510

<212> DNA

<213> Homo sapiens

<400> 479

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aagactactg aatctgctac caaaacagtg aatcagtgag tcgatgttct attttttgtt 60
ttgtttcctc ccctatctgt attcccaaaa attactttgg ggctaattta acaagaactt 120
taaattgtgt tttaattgta aaaatggcag ggggtggaat tattactcta tacattcaac 180
agagactgaa tagatatgaa agctgatttt ttttaattac catgcttcac aatgttaagt 240
tatatgggga gcaacagcaa acaggtgcta atttgttttg gatatagtat aagcagtgct 300
tgtgttttga aagaatagaa cacagtttgt agtgccactg ttgttttggg ggggcttttt 360
tcttttcgga aatctttaaac cttaagatac taaggacgtt gttttgggtg tactttggaa 420
ttcttagtca caaaatatat tttgtttaca aaaatttctg taaaacaggt tataacagtg 480
tttaaagtct cagtttcttg cttggggaac 510

```

<210> 480

<211> 371

<212> DNA

<213> Homo sapiens

<400> 480

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ttccgttgct gtcggaattg aggaagagct gggggatgaa gctcgctttg ccggacataa 60
cttccgtaat ccagtggtgc tgtgattcct ctgcttgccct ggagacgtgg aacctctgtc 120
tcacctcctt ggaaccttgc tgcctgatc tgtgatagtt caccctctga gatccctga 180
gccccagggt gcccagaact tccctgattg acctgctccg ctgctccttg gcttacctga 240
cctcttgctg tctctgctcg ccctcctttc tgtgccctac tcattggggg tccgcacttt 300
ccacttcttc ctttctcttt ctctcttccc tcaaaaacta gaaatgtgaa tgaggattat 360
tataaaaggg g 371

```

<210> 481

<211> 543

<212> DNA

<213> Homo sapiens

<400> 481

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aattccgttg ctgtcgggtg ctggaggcca tcctccagaa ctctcctgac gccaaaatct 60
tctgcctggt gcacaaaatg gatctggttc aggaggatca gcgtgacctg atttttaaag 120
agcgagagga agacctgagg cgtctgtctc gcccgctgga gtgtgcttgt tttcgaacgt 180
ccatctggga tgagacgctc tacaaagcct ggtccagcat cgtctaccag ctgattccca 240
acgttcagca gctggagatg aacctcagga attttgccca aatcattgag gccgatgaag 300
ttctgctgtt cgaaagagct acattcttgg ttatttccca ctaccagtgc aaagagcagc 360
gcgacgtcca ccggtttgag aagatcagca, acatcatcaa acagttcaag ctgagctgca 420
gtaaattggc cgcttccttc cagagcatgg aagttaggaa ttccaacttc gctgctttca 480
tcgacatctt cacctcaaat acgtacgtga tgggtggtcat gtcagatccg tcgatccctt 540
ctg 543

```

<210> 482

<211> 415

<212> DNA

<213> Homo sapiens

<400> 482

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ggcttactca ctatagggtt tttttttttt tcgggtctat tctttaattt tactaaatta 60
ggaacgcagc ttttacagaa caaataaccc caggggacgg ggcccccca ggatctaaca 120
gcttttcagg gagctatggt gcaagctcaa aagtaatcca ctaacgaacc aagtcaaaact 180
ccagttttta ataaaaagg gctgggggag gttgtcaaac cccttccaat ataaatcccc 240
aatccgatgg ccaccaaagt aaaaagcacc agggatggaa ggaaaacttt caaaaattct 300
gcaaaaaata tgcccccttt tttaatgacc ctccgggttc taatgctaag gggggccgcc 360
cccttcgggg gttaaaaaag gaactccttg gggggaatat tttccggccg acttg 415

```

<210> 483

<211> 240

<212> DNA

<213> Homo sapiens

<400> 483

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tttttttttt taaagtcatt gaggccatgg ggttggcttg aaaccacctt tgggggggtcc 60
aatcccttcc ttttttgctt aaattttatg tatacgggtt cttcaaatgc gtggtagggg 120
ggggggcatc catatagtcc ctccagggtt atggagggtt cttctactat taggactttt 180
cgcttcaaaa caaaggcttt tcaaatcatg aaaattttta attttcctgc tgttaaaaaa 240

```

<210> 484

<211> 293

<212> DNA

<213> Homo sapiens

<400> 484

```

tttttttttt aataaatctc ctaaggggat ggctactttt tctatctaaa taataatata 60
tagacctatt cgatcagaga tacaggggac taacaatcac aatcctgtga tcgacatccg 120
aacataagtc actatctatc agaataaaca atgatccaac gaataataga ggagtaaggg 180
gacatgtcca aagcatcagg tatcgatcat atcgaaaacc actgtcaagc aagacacaaa 240
caaacaaaac agctttacac acaagtcagc agtccaagcg ttcatgtccc aag 293

```

<210> 485

<211> 221

<212> DNA

<213> Homo sapiens

<400> 485

```

tttttttttt tcaagggaca ctttaatggt taacttaagg gatcatcaat tttgcctcac 60
tacctacaaa gggaaatttca tcttgtcccc atgctgagta gggaaacagg gacaaagtta 120
atcataatac cctacatcaa aaaaaaacta agctaacact gctaaacttt tttttaacag 180
gcaaaatata aatatatgcc ctctaaaatg cccaagggtt t 221

```

<210> 486

<211> 563

<212> DNA

<213> Homo sapiens

<400> 486

```

ttccggttgc gtcgcctccg ctctgctctt cgtggaacac gaccgtggtg cccggccctt 60
gggagccttg gggccagctg gectgctgct ctccagtcaa gtagcgaagc tcctaccacc 120
cagacaccca aacagccgtg gcccagagg tcttgcccaa atatgggggc ctgcctaggt 180
tggtggaaca gtgctcctta tgtaaatga gccctttgtt taaaaaaca ttccaaatgt 240
gaaactagaa tgagaggga gagataacat ggcattgcagc acacacggct gctccagttc 300
atggcctccc aggggtgctg gggatgcatc caaagtgtt gtctgagaca gaggtagaaa 360
ccctcaccaa ctggcctctt caccttccac attatcccgc tggcaccggc tggcctgtct 420
cactgcagat tcaggaccag cttgggctgc gtgcgttctg ccttgccagt cagccgagga 480
tgtagttgtt gctgccgtcg tcccaccacc tcagggacca gagggtctag ttggcactgc 540
ggccctcacc aggtcctggg ctc                                     563

```

<210> 487

<211> 271

<212> DNA

<213> Homo sapiens

<400> 487

```

ctcatatggt caggctcgtt caaaaaggaa gatgaaatcc cagagactgt ctggttgag 60
atgcttgatg ctgcaaagaa caagatgcga gtgaagatca gctatctaata gattgccctg 120
acgggtgtag gatgcatctt catggttatt gagggcaaga aggctgcca aagacacgag 180
actttaacaa gcttgaactt agaaaagaaa gctcgtctga aagaggaaag agctatgaag 240
gccaaaacag agtagcagag gtatccgtgt t                                     271

```

<210> 488

<211> 342

<212> DNA

<213> Homo sapiens

<400> 488

```

ggcttgtaat acgactcact atagggtctt ttttttttcg aattaaaaaa attccgttag 60
ccttttctcc atctcctcta attctggtag catctttgga cccctaacac ttggcactctg 120
ctacttcaga caaacaacc ctatgtaaat gacaaagaag gggcctccca accttctccc 180
tgtgttacta tttcaaaagc actactcggg gcacaggggt acaaatttct tatggccact 240
agcatctttt ttcaattttc aaaggaatca tcaaacatct gggtaatta tacttaaatt 300
acagaagccc ggaatttttag gcaacaggcc cctcatttta cc                                     342

```

<210> 489

<211> 326

<212> DNA

<213> Homo sapiens

<400> 489

```

tttttttttt aaaaagtcatt ggaggccatg ggggttggtt gaaaccagct ttgggggggtt 60
cgattccctc cttttttgtc taaattttat gtatacgggt tcttcaaatg tgtggtaggg 120
tggggggcat ccatatagtc actccagggt tatggagggt tcttctacta ttaggacttt 180
tcgcttcgaa gcgaaggctt ctcaaactat gaaaattatt aatattactg ctgttagaaa 240
aatgaatgag cctaccgatg ataggatgtt tcatgtggtg tatgcatcgg ggtagtccga 300
gtaacgtcgg ggcattccgg ataggc                                     326

```

<210> 490

<211> 55

<212> DNA

<213> Homo sapiens

<400> 490

```

tttttttttt tttttttttg agaaaccggg ggggggtttt tttttaaaat tgggg 55

```

<210> 491
 <211> 558
 <212> DNA
 <213> Homo sapiens

<400> 491
 cgccgcgtcc cttctctcgt cctgcggggc cccagctggg accccttcgg cgaactgggtac 60
 ccgcatagcc gcctcttcga ccaggccttc gggtgcgcc ggctgccgga ggagtgggtcg 120
 cagtggttag ggcgcagcag ctggccaggc tacgtgcgcc ccctgcccc cgcgcgcac 180
 gagagccccg cagtggccgc gccgcctac agccgcgcgc tcagccggca actcagcagc 240
 ggggtcttcg gagatccggc aactgcgga ccgctggcgc gtgtccctgg atgtcaacca 300
 cttcgcgccg gacgagctga cggtaagac caaggatggc gtggtggaga tcaccggcaa 360
 gcacgaggag cggcaggacg agcatggcta catctcccg tgcttcacgc ggaatacac 420
 gctgcccccc ggtgtggacc ccaccaagt ttctctctcc ctgtccctg agggcacact 480
 gaccgtggag gccccatgc ccaagctagc cacgcagtcc aacgagatca ccatccagct 540
 caccttcgag tcgcgggc 558

<210> 492
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 492
 ggctagcggg taacaatttc acacaggatg gattggctcag agtgaattga atattgtaag 60
 tcagccactg ggacccgagg atttctggga cccgcagtt gggaggagga agtagtccag 120
 ccttcaggtt ggcgtgagag gcaatgactc gttacctgcc gccatcacc ttggaggcct 180
 tccctggcct tgagtagaaa agtcggggat cggggcaaga gaggtgagc acggatggga 240
 aactattgtg cacaagtctt tccagaggag tttcttaatg agatatttgt atttatttcc 300
 agaccaataa atttgtaact ttgcgaaaaa aaaaaagccc tatagttagt cgtattacaa 360
 gccgaattcc 370

<210> 493
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 493
 cagccagcat gaccgagcgc cgcgtccctt tctcgtctct gcggggcccc agctgggacc 60
 ccttcgcgca ctggtaccgc catagccgcc tcttcgacca ggccttcggg ctgccccggc 120
 tgccggagga gtggtcgcag tggtaggcg gcagcagctg gccaggctac gtgcgcccc 180
 tgccccccgc cgccatcgag agccccgcag tggcgcgcgc cgcctacagc cgcgcgctca 240
 gccggcaact cagcagcggg gtctcggaga tccggcacac tgcggaccgc tggcgcgtgt 300
 ccctggatgt caaccaacttc gccccggacg agctgacggt caagaccaag gatggcgtg 360
 tgagatcac cggcaagcac gaggagcggc aggacgagca tggctacatc tccccgtgct 420
 tcacgcggaa atacacgctg cccccgggtg tggacccac ccaagtcttc tcctccctgt 480
 cccctgaggg cacactgacc gtggaggccc ccatgcccaa gctagccacg cagtccaacg 540
 agatcaccat cccagtcacc 560

<210> 494
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 494
 ggcttgtaat acgactcact atagggtctt tttttttgca agtgctgtgg gaagaaagt 60
 agatttacgc cgatgaatat gatagtgaat tggatttttg cgtaggtttg gtctaggggtg 120
 tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa tacagctcct 180
 attgatagga catagtggaa gtgagctaca acgtagtacg tgcgtgttag tacgatgtct 240
 agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag aaagatgaat 300
 cctagggtctc aaagcactgc agcagatcat ttcatattgc ctccgtggag tgtggcagct 360
 cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcatc atcctgtgtg 420
 aaattgttat ccgctaagcc gaa 443

<210> 495
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 495
 tttttttttt cgaaggattt ggcaaagatt tgtttttttt tccatttcca gtttttttaa 60
 gtaaacacag atttgcttaa aataaagctg attttaaaag cccacaaaag ttgaacacaa 120
 aggagaggat taaattcccc aatgcagagt gataaaaagg aaaagatcct gagtaggtgc 180
 cttcagcaaa aaactgatca tccagggtga tcacctaata atcggagact taattcctta 240
 taatgcaaa 249

<210> 496
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 496
 tttccgtatc tgcttcgggc ttccacctca tttttttcgc tttgcccatt ctgtttcagc 60
 cagtcgcca gaatcatgaa agtcgccagt ggcagcaccg ccaccgccgc cgcggggccc 120
 agctgcgcgc tgaaggccgg caagacagcg agcgggtgcgg gcgaggtggt gcgctgtctg 180
 tctgagcaga gcgtggccat ctgcgcgtgc gccgggggcg ccggggcgcg cctgcctgcc 240
 ctgctggacg agcagcaggt aaacgtgctg ctctacgaca tgaacggctg ttactcacgc 300
 ctcaaggagc tgggtccccc cctgccccag aaccgcaagg tgagcaagggt ggagattctc 360
 cagcacgtca tcgactacat cagggacctt cagttggagc tgaactcgga atccgaagtt 420
 ggaacccccg gggg 434

<210> 497
 <211> 368
 <212> DNA
 <213> Homo sapiens

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<213> Artificial Sequence

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<210> 505

<211> 24

<212> DNA

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24

<210> 506

<211> 25

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<210> 509

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<223> Oligonucleotide primer

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25

<210> 510

<211> 24

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24

<210> 511

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide primer

<400> 511

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<210> 512

<211> 406

<212> PRT

<213> Homo sapiens

<400> 512

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Pro	Tyr	Pro	Asp	Gln	Ile	Ile	Cys	Pro	Asp	Glu	Glu	Gly	Thr	Glu	Gly
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 Ser Glu Met Gly Thr Pro Gln Gly Glu Asn Trp Leu Ser Trp Met Phe
 355 360 365
 Glu Lys Leu Val Val Val Met Val Cys Tyr Phe Ile Leu Ser Ile Ile
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 385 390 395 400
 Ser Glu Glu Lys Thr Lys
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<211> 1221

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 514

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 actccatggc acaaagtat gccaaacgaa tccagcagcg gttgaactca gaggagaaaa 240
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<212> DNA

<213> Homo sapiens

<400> 515

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<212> DNA

<213> Homo sapiens

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